October 15, 2005

Mr. Noman Chowdhury California Regional Water Quality Control Board Los Angeles Region 320 West 4<sup>th</sup> Street, Suite 200 Los Angeles, California 90013

Subject:

**Quarterly Site Conceptual Model Update for the Third Quarter 2005** 

Mobil Station 18MLJ

5005 North Long Beach Boulevard

Long Beach, California

CRWQCB Case No. 908050452A

Mr. Chowdhury:

At the request of ExxonMobil Oil Corporation (ExxonMobil), Environmental Resolutions, Inc. is submitting the Third Quarter 2005 ExxonMobil Quarterly Groundwater Monitoring and Status Report for the above-referenced site. The format utilized for the report consolidates groundwater sampling (where applicable), Title 23, Subchapter 16 reporting and consultant progress updates for ExxonMobil into one summary report.

Please call me at (949) 457-8954 if you have any questions.

Sincerely,

Environmental Resolutions, Inc.

re E.

George E. Salley Senior Project Geologist

P.G. 6308

Cc:

Ms. Marla D. Guensler, ExxonMobil

Ms. Carmen Piro, Long Beach Department of Health and Human Services

3163 EXNQTRLY

Date: October 15, 2005

## EXXONMOBIL OIL CORPORATION (EXXONMOBIL) SITE CONCEPTUAL MODEL UPDATE

Site Status: Active Mobil Station Station Number: <u>18MLJ</u> Address: ExxonMobil Environmental Engineer: Consulting Company/Contact Person: Primary Agency:

Other Agencies to Receive Copies:

5005 North Long Beach Boulevard, Long Beach, CA

Ms. Marla D. Guensler

Environmental Resolutions, Inc. (ERI)/George E. Salley Mr. Noman Chowdhury, California Regional Water Quality

Control Board - Los Angeles Region (CRWQCB)

320 West 4<sup>th</sup> Street, Suite 200, Los Angeles, CA 90013

Ms. Carmen Piro

Long Beach Department of Health and Human Services

2525 Grand Avenue, Long Beach, CA 90815

## WORK PERFORMED THIS QUARTER [Third - 2005]:

- 07/06-07/05 Conducted an air sparge/soil vapor extraction (AS/SVE) feasibility study at the site.
- o 07/15/05 Submitted the quarterly report for the second quarter 2005.
- o 08/04/05 Performed quarterly purge groundwater monitoring and sampling. Properly recycled purge water at Crosby & Overton of Long Beach, California, under a non-hazardous waste manifest (attached).
- o 09/13/05 ExxonMobil submitted a report to the CRWQCB containing the preliminary site conceptual model, site characterization report and plume travel time model.
- o A copy of the manifest for recycling of purge water during the second quarter 2005 is included with this report.

## WORK PROPOSED FOR NEXT QUARTER [Fourth - 2005]:

- o Perform quarterly purge groundwater monitoring and sampling.
- o Submit a quarterly report.
- o Prepare and submit a final remedial action plan based on the engineering data obtained from the AS/SVE feasibility study.

Current Phase of Project:	Monitoring and sampling / Remediation
Frequency of Monitoring and Sampling:	Quarterly
Is LPH Present on Site:	No
Cumulative LPH Recovered to Date:	None
Water Wells or Surface Waters within 1000'	
& Their Respective Directions:	None
Permits for Discharge:	NA
Current Remediation Techniques:	None
Depth to Groundwater:	26 to 28 feet bgs – measured on 08/04/05
·	

## SITE CONCEPTUAL MODEL UPDATE

The preliminary site conceptual model (PSCM) for this case was prepared by ExxonMobil and submitted to the CRWQCB on September 13, 2005. The following sections provide an update to the PSCM based on the most recent data obtained at the site.

#### SITE DESCRIPTION

The subject site is an active Mobil service station which sells Mobil-branded gasoline, located at the northwestern corner of North Long Beach Boulevard and Del Amo Boulevard in Long Beach, California (Site Location Map, Plate 1). The site facilities consist of a service station building containing a Mobil Mart food store. The fueling system consists of three unleaded-gasoline underground storage tanks (USTs), one diesel UST, seven fuel dispensers (six gasoline and one diesel), and the associated product piping. The locations of the fueling system components, as well as the locations of soil borings, groundwater monitoring wells, and other relevant site features, are shown on the Generalized Site Plan (Plate 2).

The area surrounding the site consists of commercial businesses, apartments and residential housing. A Chevron service station is located south of the site across Del Amo Boulevard. A Shell service station is located on the southeastern corner. A 7-Eleven food store and a McDonald's restaurant are located on the northeastern corner of the intersection. The vacant lot directly north of the site is being currently developed as an elementary school. The area surrounding the site is shown on the Aerial Photo Map (Plate 3).

## **BACKGROUND**

The following is a brief description of the previous work conducted at the site. For detailed information, refer to the reports listed in the reference section of this site conceptual model update (SCMU). The locations of the soil borings and groundwater monitoring wells drilled and installed during the previous work at the site plus other relevant site features are shown on Plate 2. The analytical results from soil sampling conducted during previous investigations are presented in Table 1. Groundwater monitoring and sampling data for the third quarter 2005 is summarized in Table 2. The cumulative water level measurements and groundwater analytical results are presented in Table 3.

## **Subsurface Investigations**

In August 1989, American Environmental Management Corporation (AEM) conducted a site assessment that consisted of drilling and sampling six soil borings, and completing three of the soil borings as groundwater monitoring wells (AEM, 1989). The results of this investigation prompted the City of Long Beach Department of Health and Human Services (LBDHHS) to transfer the case to the CRWQCB for further review and oversight. The case was transferred on October 4, 1989, and the CRWQCB issued case file No. 908050452 to this site. Subsequent to the transfer of this case to the CRWQCB, additional site assessment and remedial testing activities were performed at the site which resulted in the installation of nine groundwater monitoring wells (five on site and four off site), three on-site air sparge wells and two on-site vapor extraction wells. Quarterly groundwater monitoring was conducted at the site from first quarter 1993 through second quarter 1996 (TRAK Environmental Group, 1996). During this time period, depth to groundwater ranged from approximately 27 to 36 feet bgs, and the groundwater flow direction was consistently toward the southwest. On July 23, 1996, the CRWQCB issued an Underground Storage Tank Case Closure Letter, and required that all wells be properly destroyed. On November 11, 1996, Remedial Management Corporation (RMC) submitted a well abandonment report stating that all of the wells (on site and off site) had been abandoned by pressure grouting (RMC, 1996).

In January 2001, H.B. Covey of Pomona, California, conducted a fueling system upgrade at the site. The upgrade consisted of removing and replacing the fuel dispensers and related product piping. FREY Environmental, Inc. (FREY) of Newport Beach, California, performed soil sampling activities in conjunction with the fueling system upgrade. FREY personnel collected soil samples from six locations adjacent to the fuel dispensers and from one location adjacent to the product piping. Methyl tertiary butyl

ether (MTBE) in soil was measured at a maximum concentration of 50 milligrams per kilogram. (FREY, 2001)

ExxonMobil transferred environmental consulting responsibilities for this site to ERI in October 2002. In subsequent case reviews between ExxonMobil and ERI, a decision was made to assess the condition of soil and groundwater beneath the site. This decision was based on the concentrations of fuel oxygenates in soil detected during the aforementioned fueling system upgrade, and the juxtaposition of sensitive receptors in the area. In February 2003, ExxonMobil submitted a work plan for the installation of three groundwater monitoring wells at the site.

In April 2003, ERI conducted an initial site assessment which consisted of drilling and sampling soil borings B1 through B3. Borings B1 and B2 were each completed as a groundwater monitoring wells MW1 and MW2, respectively. Boring B3 was completed as dual-completion groundwater monitoring/soil vapor extraction well MW3. During this investigation, groundwater was first encountered at approximately 30 feet bgs. The data presented in this report resulted in the LBDHHS transferring the case to the CRWQCB for further review and oversight. (ERI, 2003)

In October 2004, ERI conducted an additional site assessment which consisted of drilling and sampling off-site soil borings B4 through B6. The borings were completed as groundwater monitoring wells MW4 through MW6, respectively. The purpose of this investigation was to provide off-site delineation of fuel constituent concentrations in soil and groundwater. (ERI, 2004)

In March 2005, ERI drilled and sampled on-site boring B7 which was completed as groundwater monitoring well MW7. This well was installed to provide upgradient delineation in the northeastern portion of the site. (ERI, April 14, 2005)

In March 2005, ExxonMobil submitted an interim remedial action plan (IRAP) to the CRWQCB for an AS/SVE feasibility study at the site. The CRWQCB submitted a letter to ExxonMobil dated May 9, 2005 granting approval of the IRAP. In response to the approval, ERI drilled and installed remediation wells AS/SVE1 through AS/SVE4 in May 2005. The details of this activity will be reported in the final RAP.

## Remediation

According to FREY, approximately 75 tons of hydrocarbon affected soil was generated during the aforementioned January 2001 fueling system upgrade project. The soil was removed from the site and transported for recycling to TPS Technologies, Inc.'s approved facility in Adelanto, California.

Since quarterly groundwater monitoring and sampling began in the second quarter 2003, a total of approximately 1,794 gallons of groundwater has been purged from the site wells. The purge water was transported to Crosby & Overton's (C&O) permitted facility in Long Beach, California, for recycling.

### **Quarterly Monitoring**

Quarterly groundwater monitoring and sampling has been conducted at the site since the second quarter 2003. During that time, the average depth to groundwater at the site has been approximately 29 feet bgs, and groundwater flow direction has been toward the southwest. The most recent quarterly groundwater monitoring and sampling event took place on August 4, 2005. Compared to the average groundwater depth for the site, the depth to groundwater has decreased by approximately 2 feet. The maximum concentrations of benzene, total petroleum hydrocarbons as gasoline (TPHg) and MTBE were detected in well MW2 at concentrations of 6.26 micrograms per liter (µg/l), 5820 µg/l and 435 µg/l, respectively.

Groundwater gauging data for the third quarter 2005 is shown on the Groundwater Elevation Contour Map – 08/04/05 (Plate 4). Groundwater sampling data for benzene, TPHg, MTBE and tertiary butyl alcohol for the third quarter 2005 are shown on the isopleth concentration maps (Plates 5 through 8, respectively).

## **SENSITIVE RECEPTOR SURVEY**

Sensitive receptors include water supply wells, schools, hospitals and surface water bodies within a 1-mile radius of the site. ERI performed a search to identify any water supply wells, schools, hospitals and surface water bodies within the sensitive receptor survey area. Each receptor identified by this survey is depicted on the Sensitive Receptor Map (Plate 9).

The closest water supply wells to the site are wells 905L and 906B, located approximately 2,170 feet southwest and 2,270 feet south of the site, respectively. A new elementary school is currently being constructed directly adjacent to the northern property line of the site, and the closest surface water body is the Los Angeles River which is located approximately 0.4 miles west of the site.

## PLUME TRAVEL TIME ESTIMATE

The original plume travel time estimate (PTTE) was prepared by ERI using the CRWQCB's Non-Steady State Spreadsheet Analytical Model to evaluate the travel time for MTBE to reach the closest sensitive receptor to the site, and was submitted to the CRWQCB on September 13, 2005. As stated, the closest sensitive receptor is active production well 905L, located approximately 2,170 feet southwest of the site. This well is also designated as California State Well No. 4S13W12E01. The screened interval for the production well is reported to be from 360.5 feet bgs to 375.5 feet bgs. The location of the production well places it in line with the groundwater flow direction exhibited for this site. On-site well MW2 and offsite well MW5 generally fit the CRWQCB's modeling criteria that MTBE concentrations increase then decrease over time.

ERI used reasonable value ranges for groundwater velocity and dispersivity, based on site information, to match the concentration curves in wells MW2 and MW5. Based on the ranges of values for these parameters, and the conservative assumption that the drinking water well (point of exposure) is directly downgradient, the model predicts that an MTBE concentration of 5 micrograms per liter would occur at the aforementioned drinking water well in 91.3 years. Please note that the CRWQCB model is predicated on the assumption that the data truly denote a peak, that the peaks are not due to other groundwater dynamics (such as elevation changes), and that the two peaks modeled are from the same instantaneous release. Given that there are only three data points for monitoring well MW5, not all of these assumptions may be correct for this site.

It is ERI's opinion that no atypical site-specific conditions, with regard to transport, exist and that the site conditions pose little risk to the aforementioned point of exposure. It is also ERI's opinion that this model does not allow for a unique solution to the fuel constituent transport question. The model does not take into account the presence of aquitards between the shallow affected groundwater and the aquifers from which the supply well is pumping. Also, the model does not allow for the effects of natural attenuation (except dispersion) during transport. These two criteria would act to increase the time it would take for MTBE to reach the supply well, and would diminish the concentration of MTBE that finally reached the well (if any). In accordance with the CRWQCB requirements, the data contained in the model will be updated annually (during the second quarter), or as necessary based on changes in site conditions.

## **CONCLUSIONS**

The site conceptual model for Mobil Station 18MLJ is that of a two-release scenario. This consists of an older release of fuel constituents that does not contain fuel oxygenates and a separate newer release that does contain fuel oxygenates. The old release is believed to have occurred prior to the case closure granted in 1996. The more recent release contains concentrations of fuel oxygenates originally prevalent in shallow soil at the site. Based on the quarterly groundwater sampling results to date, the fuel oxygenates detected in the shallow soil are now affecting the groundwater bearing zone.

#### REFERENCES

American Environmental Management, August 1989, Site Assessment, Mobil Station, 5005 Long Beach Boulevard, Long Beach, California.

California Department of Water Resources, June 1961 (reprinted May 1990), Bulletin Number 104, Planned Utilization of the Ground Water Basins of the Coastal Plain of Los Angeles County, Appendix A, Ground Water Geology.

California Regional Water Quality Control Board – Los Angeles Region, July 23, 1996, Underground Storage Tank Case Closure, Mobil Service Station 18-MLJ, 5005 Long Beach Boulevard, Long Beach.

Environmental Resolutions, Inc., June 9, 2003, Letter Report for the Installation of Three Groundwater Monitoring Wells at Mobil Station 18-MLJ, 5005 North Long Beach Boulevard, Long Beach, California.

Environmental Resolutions, Inc., December 23, 2004, Groundwater Monitoring Well Installation Report, Mobil Station 18MLJ, 5005 North Long Beach Boulevard, Long Beach, California.

Environmental Resolutions, Inc., April 14, 2005, Groundwater Monitoring Well Installation Report, Mobil Station 18MLJ, 5005 North Long Beach Boulevard, Long Beach, California.

Environmental Resolutions, Inc., July 15, 2005, Quarterly Report for the Second Quarter 2005, Mobil Station 18MLJ, 5005 North Long Beach Boulevard, Long Beach, California.

Environmental Resolutions, Inc., September 13, 2005, Preliminary Site Conceptual Model, Site Characterization Report & Plume Travel Time Estimate, Mobil Station 18MLJ, 5005 North Long Beach Boulevard, Long Beach, California.

FREY Environmental, Inc., March 19, 2001, Fuel Dispensing Complex Soil Sampling, Mobil Service Station #18-MLJ, 5005 N. Long Beach Boulevard, Long Beach, California.

Remedial Management Corporation, November 11, 1996, Abandonment of Groundwater Monitoring, Sparge, and Vapor Extraction Wells, Mobil Station 11-MLJ, 5005 Long Beach Boulevard, Long Beach, California.

TRAK Environmental Group, Inc., July 25, 1996, Quarterly Progress Report, Second Quarter 1996, Mobil Service Station 11-MLJ, 5005 Long Beach Boulevard, Long Beach, California.

United States Geological Survey, 1964 (photorevised 1981), Long Beach, California, Quadrangle, 7.5 Minute Series Topographic Map.

Please call Mr. George E. Salley at (949) 457-8954 for any questions regarding this report.



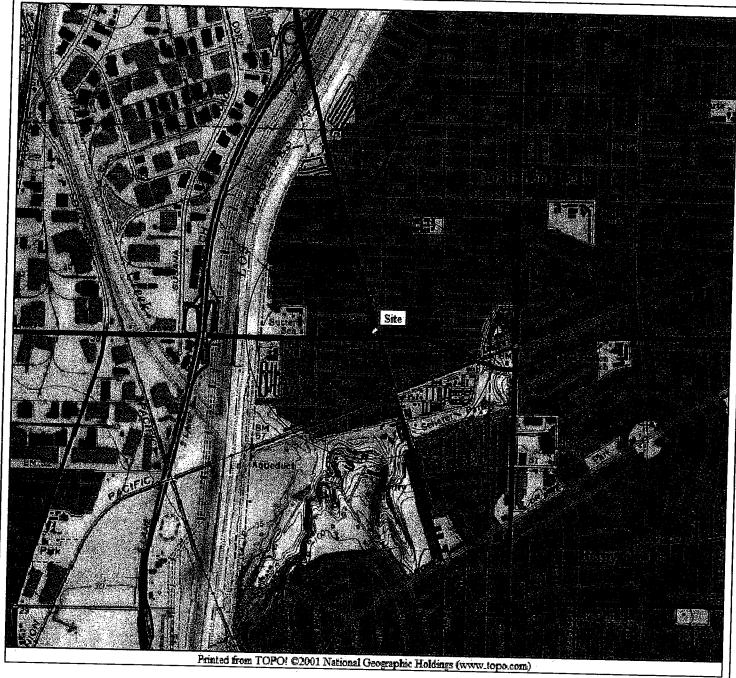
Respectfully Submitted, Environmental Resolutions, Inc.

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George E. Salley Senior Project Geologist P.G. 6308

## ATTACHED:

- o Site Location Map (Plate 1)
- o Generalized Site Plan (Plate 2)
- o Aerial Photo Map (Plate 3)
- o Groundwater Elevation Contour Map 08/04/05 (Plate 4)
- o Benzene Groundwater Isopleth Concentration Map 08/04/05 (Plate 5)
- o TPHg Groundwater Isopleth Concentration Map 08/04/05 (Plate 6)
- o MTBE Groundwater Isopleth Concentration Map 08/04/05 (Plate 6)
- o TBA Groundwater Isopleth Concentration Map 08/04/05 (Plate 8)
- o Sensitive Receptor Map (Plate 9)
- Cumulative Soil Analytical Results (Table 1)
- o Water Level Measurements and Groundwater Analyses (Table 2)
- o Cumulative Water Level Measurements and Groundwater Analyses (Table 3)
- o Non-Steady State Transport Model Spreadsheet
- o Laboratory Report and Chain-of-Custody Record
- o Purging and Sampling Records
- o Purging and Sampling Protocol
- o Non-Hazardous Waste Manifest for Third Quarter 2005



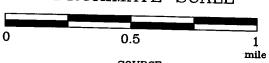
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## **EXPLANATION**



1/2-mile radius circle

# APPROXIMATE SCALE



SOURCE: Modified from a map provided by National Geographic's TOPO!



## SITE LOCATION MAP

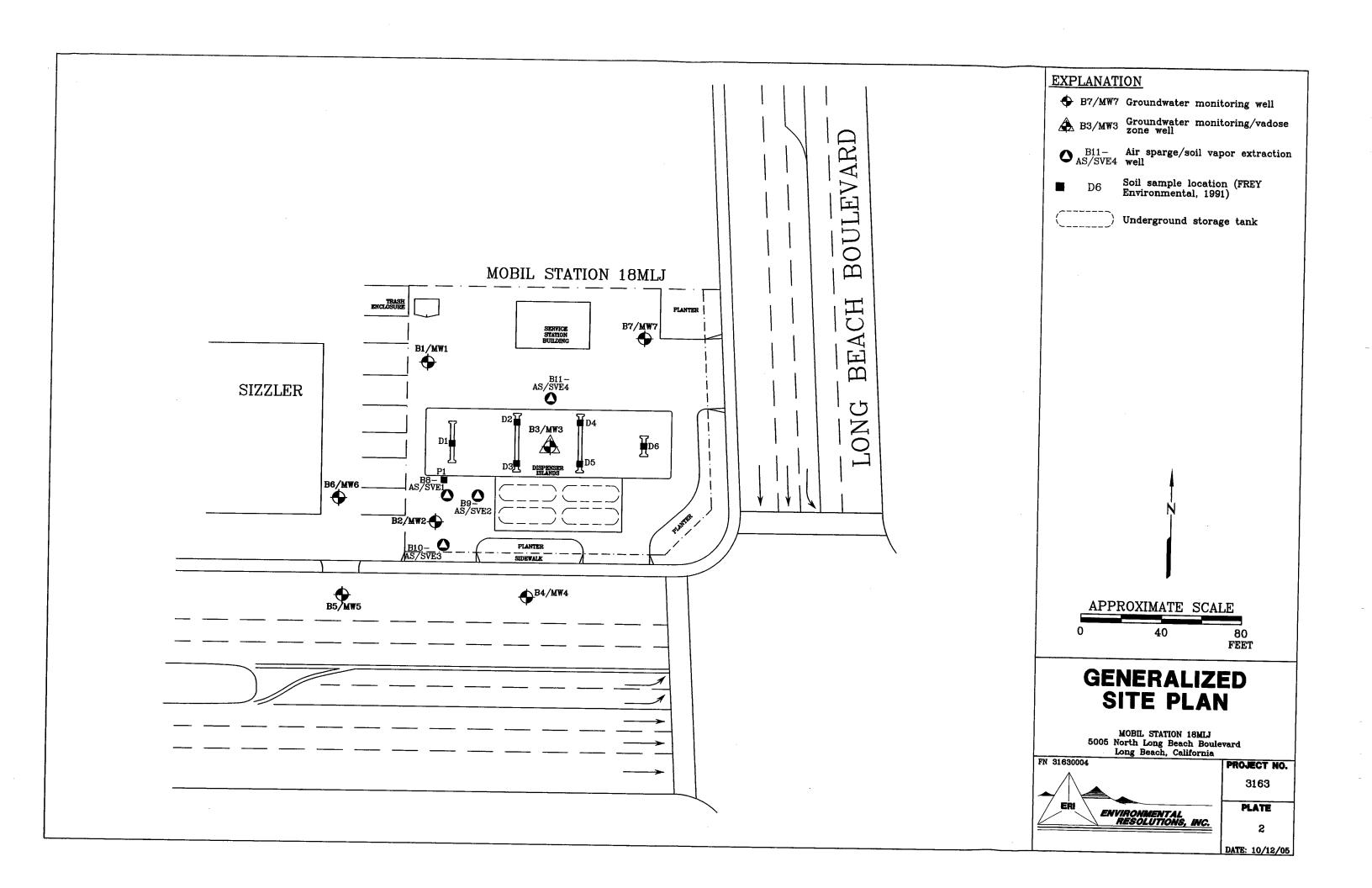
MOBIL STATION 18MLJ 5005 North Long Beach Boulevard Long Beach, California

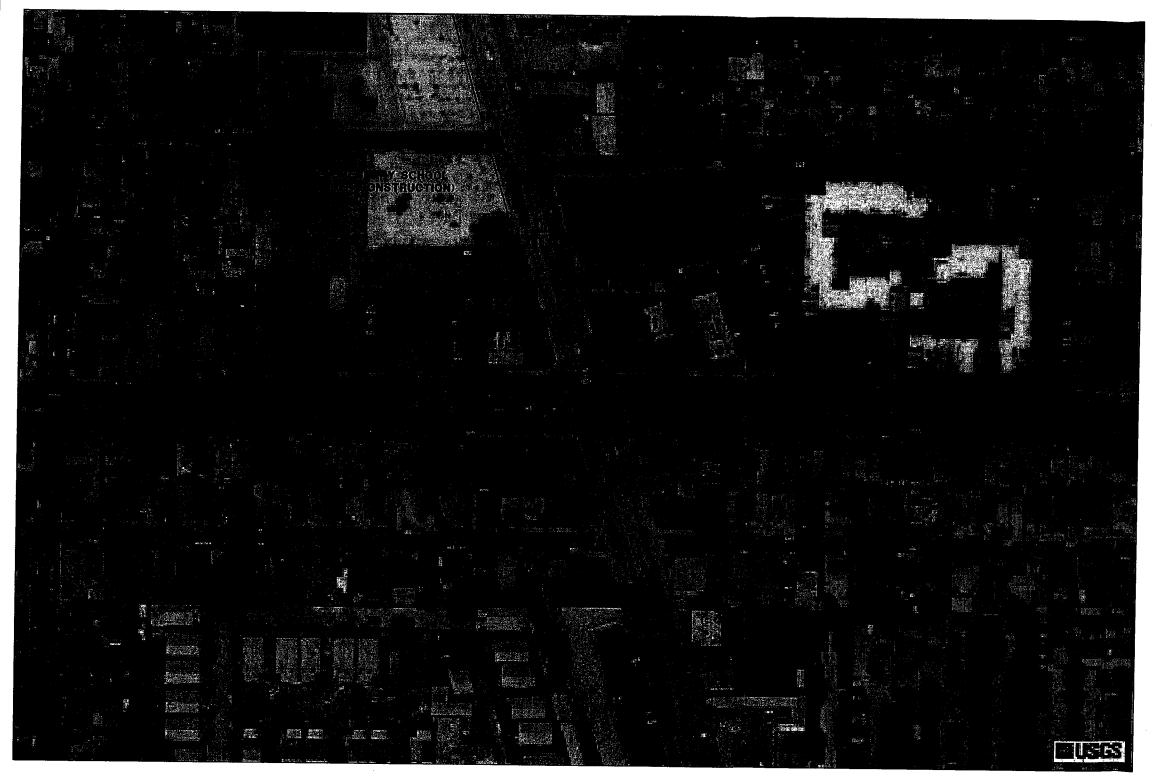
PROJECT NO.

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PLATE

1





NOT TO SCALE

## **AERIAL PHOTO MAP**

MOBIL STATION 18MLJ 5005 North Long Beach Boulevard Long Beach, California

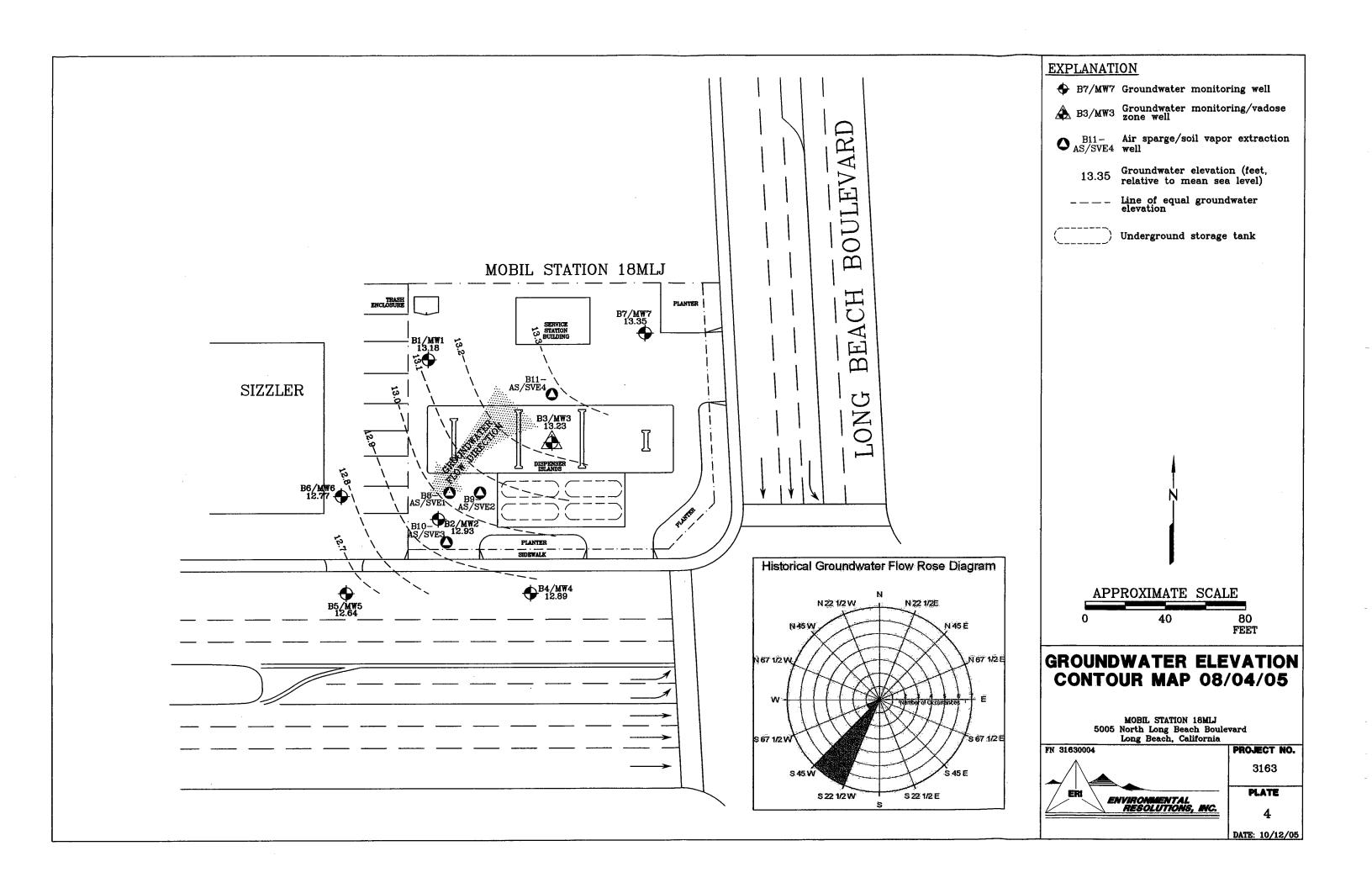


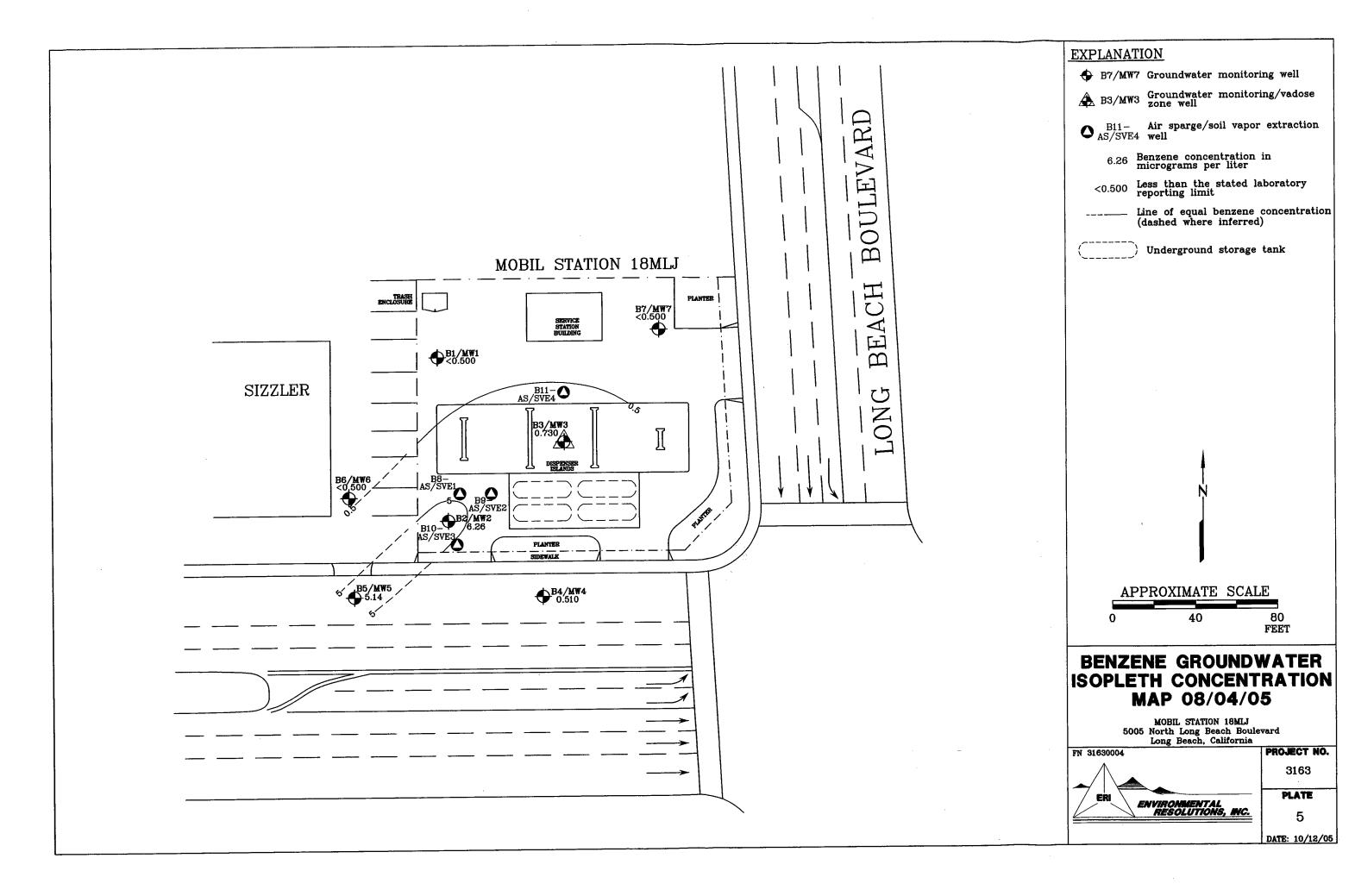
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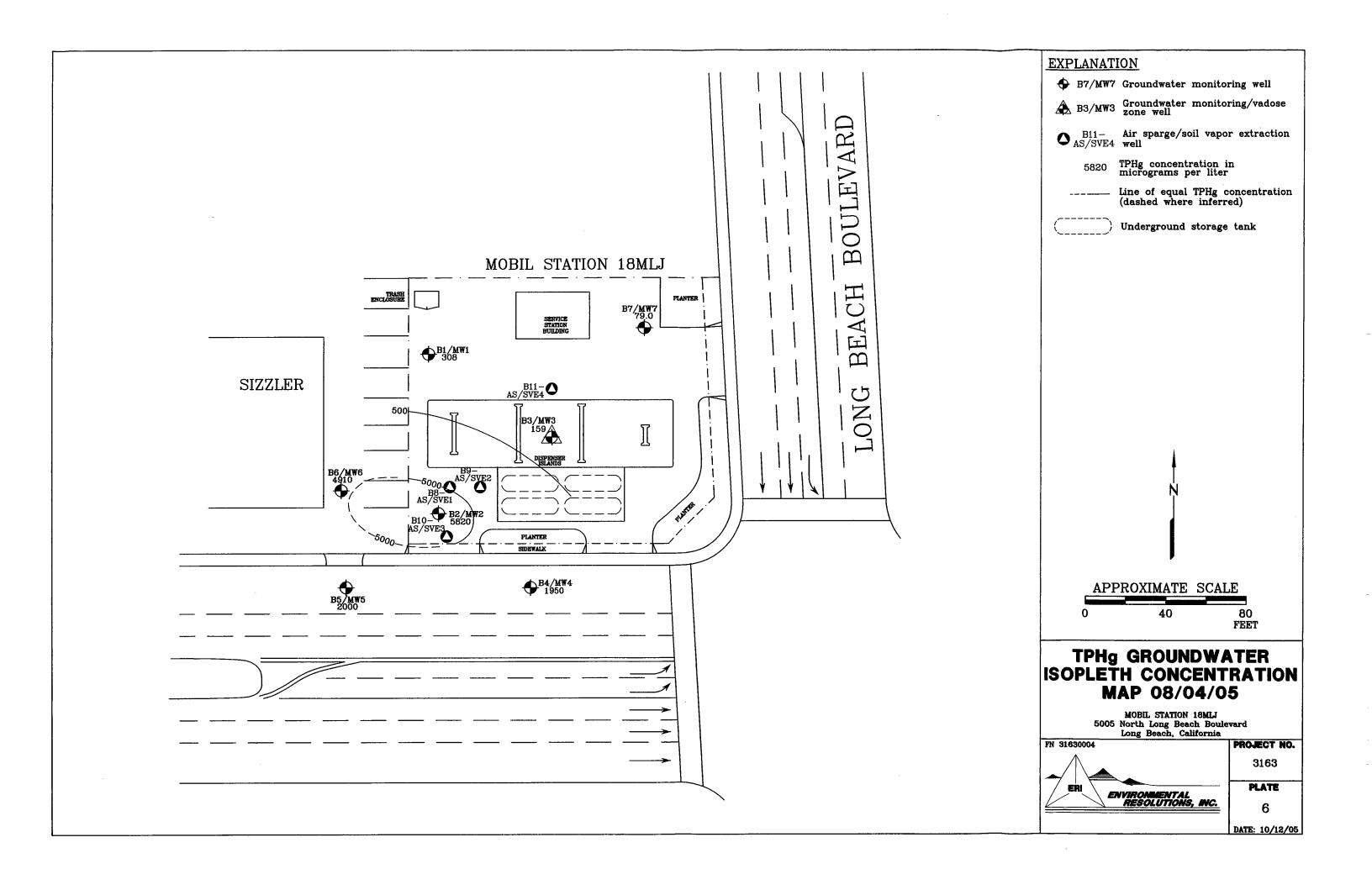
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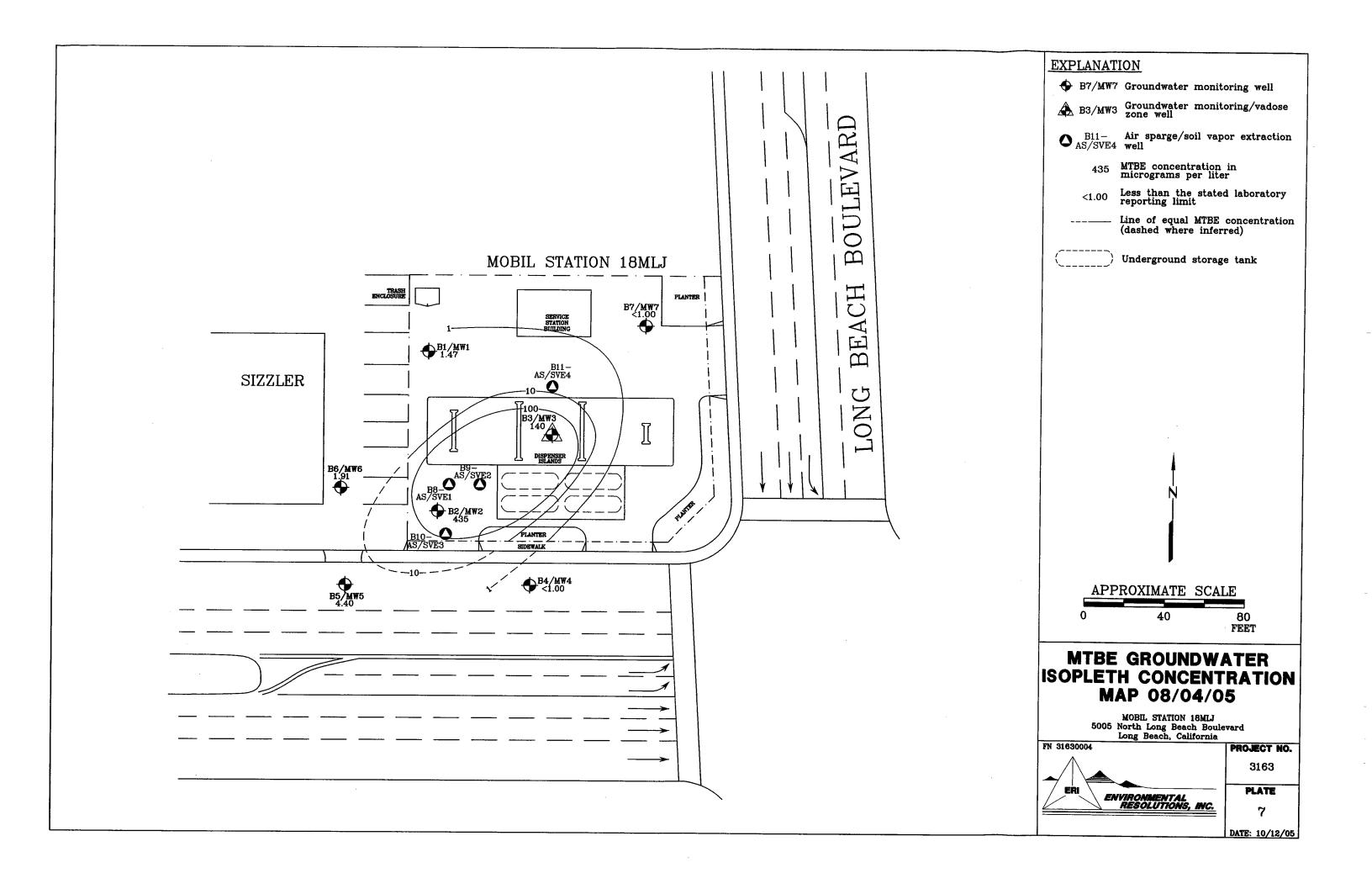
PLATE 3

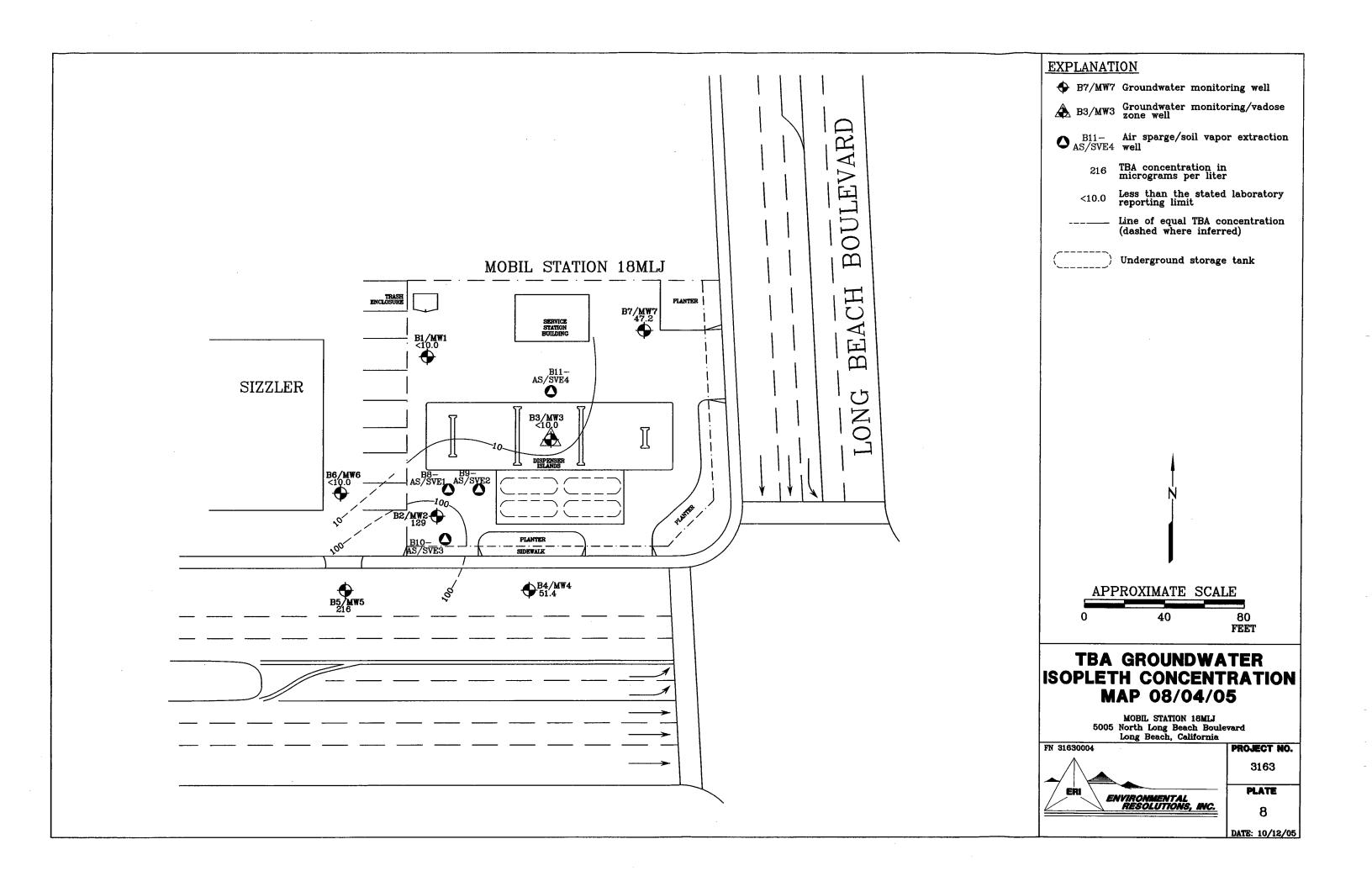
DATE: 10/12/05

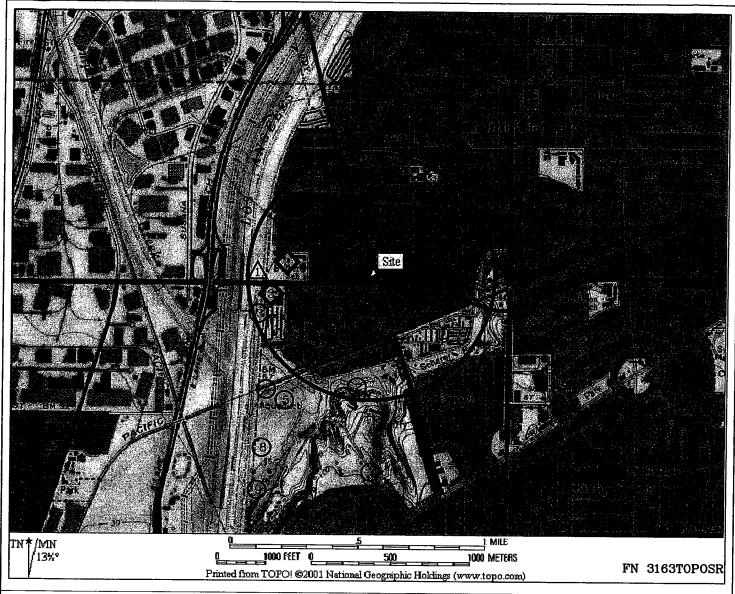


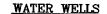












- (1)905L (2170 feet)\*
- (2)906B (2270 feet)\*
- (3)895J (2400 feet)\*
- (4)906A (2800 feet)\*
- (5)906E (2850 feet)\*
- (6)904 (3200 feet)\*
- (7)906D (3910 feet)\*
- (8)896X (4200 feet)\*
- (9)896E (4860 feet)\*

## SENSITIVE RECEPTORS

## SCHOOLS

Praise Temple Academy (630 feet)

Sutter Elementary School (1580 feet)

Long Beach Adventist School (2010 feet)

Southwestern Longview School (2270 feet)

Addams Elementary School (2320 feet)

HOSPITALS

None

SURFACE WATER

⚠ Los Angeles River (2400 feet)

## **EXPLANATION**

1/2-mile radius circle

= Location obtained from www.ladpw.org

School locations obtained from Microsoft Streets and Trips 2003 database.

## NOTES

Only schools within 1/2-mile radius of site are shown

Map Name: Long Beach, CA Version: 1981



## SENSITIVE RECEPTOR MAP

MOBIL STATION 18MLJ 5005 North Long Beach Boulevard Long Beach, California

## PROJECT NO.

3163

PLATE

9 DATE: 10/12/05

## CUMULATIVE SOIL ANALYTICAL RESULTS

## MOBIL STATION 18MLJ 5005 NORTH LONG BEACH BOULEVARD

LONG BEACH, CALIFORNIA

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Sample	Depth			Ethyl-	Total									<del>_</del>
Number	(feet)	Benzene	Toluene	benzene	Xylenes	TPHg	TPHd	MTBE	TBA	DIPE	ETBE	TAME	Ethanol	Methanol
Samples c	ollected by	/ FREY Envi	ronmental,	Inc. on Janu	ary 18 and 2	29, 2001.	Concentrat	ions reporte	ed in mg/kg					
D1-4	4	<0.092	<0.092	< 0.092	<0.272	1.1	NA	5.000	2.600 J	< 0.092	< 0.092	< 0.092	NA	NA
D2-4	4	<0.110	<0.110	<0.110	<0.330	1.9	NA	5.500	21.000	<0.110	<0.110	<0.110	NA	NA
D3-4	4	<0.100	<0.100	<0.100	<0.310	34	NA	30.000	140	< 0.100	<0.100	0.055 J	NA	NA
D4-4	4	<0.096	<0.096	<0.096	<0.286	0.82	NA	4.800	8.900	< 0.096	< 0.096	< 0.096	NA	NA
D5-4	4	<0.94	<0.94	< 0.94	<0.284	53	NA	50.000	69.000	< 0.94	< 0.94	< 0.94	NA	NA
D6-4	4	<0.390	0.270 J	< 0.390	0.210 J	1.8	NA	18.000	<19.000	< 0.390	< 0.390	< 0.390	NA	NA
P1-4	4	< 0.930	< 0.930	< 0.930	<2.830	2.1	NA	13.000	<46.000	< 0.930	< 0.930	< 0.930	NA	NA
SP1		< 0.0050	<0.0050	<0.0050	<0.010	< 0.50	NA	0.017	4.000	< 0.010	<0.010	< 0.010	NA	NA
SP2		< 0.0050	0.0062	0.010	0.177	3.8	NA	0.011	0.610	< 0.010	<0.010	<0.010	NA	NA
SP3		<0.0050	<0.0050	<0.0050	<0.0100	<0.50	NA	<0.0050	0.900	<0.010	<0.010	< 0.010	NA	NA
SP4		<0.0050	<0.0050	<0.0050	<0.0100	< 0.50	NA	0.049	1.700	<0.010	<0.010	< 0.010	NA	NA
SP5		< 0.0050	<0.0050	<0.0050	0.054	< 0.50	NA	0.039	3.500	<0.010	<0.010	< 0.010	NA	NA
SP6 (a)		<0.0050	<0.0050	<0.0050	<0.0100	<0.50	NA	<0.0050	0.510	<0.010	<0.010	<0.010	NA	NA
SP7 (a)		<0.0050	<0.0050	<0.0050	<0.0100	<0.50	NA	<0.0050	< 0.250	<0.010	<0.010	<0.010	NA	NA
Samples c	ollected by	/ Environme	ntal Resolut	ions, Inc. or	n April 14 an	d 15, 2003	. BTEX and	d fuel oxyge	enate conce	ntrations i	reported in	μg/kg; TPI	lg, ethanol	and
methanol	reported i	in mg/kg.												
S-6-B1	6	0.78 J	0.71 J	<0.98	0.49 J	<0.27	NA	0.28 J	<20	< 0.98	<0.98	<0.98	<0.10	<0.10
S-10-B1	10	11	11	1.7	2.57 J	<0.23	NA	<1.9	<19	<0.95	< 0.95	< 0.95	<0.10	<0.10
S-15-B1	15	0.46 J	<0.89	<0.89	<2.69	<0.25	NA	0.54 J	<18	<0.89	<0.89	<0.89	<0.10	<0.10
S-20-B1	20	<0.84	<0.84	<0.84	<2.54	<0.21	NA	<1.7	<17	<0.84	<0.84	<0.84	<0.10	<0.10
S-25-B1	25	<1.0	<1.0	<1.0	<3.1	<0.24	NA	<2.1	<21	<1.0	<1.0	<1.0	<0.10	<0.10
S-30-B1	30	<0.97	<0.97	< 0.97	<2.87	0.12 J	NA	0.28 J	<19	<0.97	<0.97	<0.97	<0.10	<0.10
S-40-B1	40	0.72 J	0.53 J	<0.91	<2.71	0.26	NA	<1.8	<18	<0.91	<0.91	<0.91	<0.10	<0.10
<u>S-50-B1</u>	50	<1.1	<1.1	<1.1	<3.2	0.13 J	NA	<2.1	<21	<1.1	<1.1	<1.1	<0.10	<0.10

## **CUMULATIVE SOIL ANALYTICAL RESULTS**

## MOBIL STATION 18MLJ 5005 NORTH LONG BEACH BOULEVARD

LONG BEACH, CALIFORNIA

							ERI 3163							
Sample	Depth			Ethyl-	Total								-	
Number	(feet)	Benzene	Toluene	benzene	Xylenes	TPHg	TPHd	MTBE	TBA	DIPE	ETBE	TAME	Ethanol	Methanol
Samples o	collected by	/ Environmer	ntal Resolut	ions, Inc. or	April 14 an	d 15, 2003	(continued).	BTEX an	d fuel oxyg	enate conc	entrations	reported in	μg/kg; TP	Hg,
ethanol a	nd methar	nol reported	in mg/kg.									-		•
S-5-B2	5	<98	<98	<98	<298	<0.24	NA	1300	<2000	<98	<98	<98	<0.10	<0.10
S-10-B2	10	<88	<88	<88	<268	< 0.23	NA	2600	<1800	<88	<88	<88	<0.10	<0.10
S-15-B2	15	<88	<88	<88	<268	0.070 J	NA	1000	<1800	<88	<88	<88	<0.10	<0.10
S-20-B2	20	3.1	<0.87	11	3.85	0.15 J	NA	36	13 J	<0.87	<0.87	< 0.87	<0.10	<0.10
S-25-B2	25	1.0	<0.98	6.4	<2.98	0.17 J	NA	700	220	< 0.98	< 0.98	< 0.98	<0.10	<0.10
S-30-B2	30	<98	<98	<98	<298	0.13 J	NA	1300	<2000	<98	<98	<98	< 0.10	<0.10
S-35-B2	35	<1.0	0.42 J	<1.0	0.27 J	0.083 J	NA	1.8 J	<20	<1.0	<1.0	<1.0	<0.10	<0.10
S-40-B2	40	0.16 J	0.38 J	4.9	1.61 J	0.15 J	NA	1.3 J	<20	< 0.99	< 0.99	< 0.99	<0.10	<0.10
S-45-B2	45	<95	2100	620	3600	83	NA	39 J	<1900	<95	<95	<95	<0.10	<0.10
S-50-B2	50	<370	45000	16000	92000	1300	NA	<740	<7400	<370	<370	<370	<0.10	< 0.10
S-10-B3	10	<190	<190	<190	212 J	0.68	NA	21000	<3700	<190	<190	<190	< 0.10	<0.10
S-15-B3	15	37 J	220	1000	8600	4.4	NA	6700	<1800	<90	<90	<90	<0.10	<0.10
S-20-B3	20	2.7	0.35 J	90	140.95	2.4	NA	720	23	<0.82	<0.82	<0.82	<0.10	< 0.10
S-25-B3	25	0.60 J	0.45 J	6.3	20.1	0.12 J	NA	270	56	< 0.92	< 0.92	< 0.92	<0.10	< 0.10
S-30-B3	30	<0.97	<0.97	0.35 J	1.63 J	0.22	NA	5.9	<19	<0.97	<0.97	< 0.97	<0.10	<0.10
S-35-B3	35	<110	<107	78 J	500	1.1	NA	1300	<2100	<110	<110	<110	NA	NA
S-45-B3	45	0.48 J	2.0	12	85	0.79	NA	150 J	45	<0.89	<0.89	<0.89	<0.10	<0.10
S-50-B3	50	0.35 J	1.5	10	71	0.46	NA NA	300	58	<0.87	<0.87	<0.87	<0.10	<0.10
•	collected by			ions, Inc. or	October 26	through 28	3, 2004. <b>Co</b>	ncentratio	ns reported	in mg/kg.				
S-10-B4	10	0.0044	0.0039	<0.0013	<0.0013	<5.00	<10.1	<0.0013	<0.0321	<0.0013	< 0.0013	< 0.0013	<0.128	<10.0
S-15-B4	15	<0.0015	<0.0015	<0.0015	<0.0015	<5.00	<9.96	<0.0015	<0.0378	<0.0015	<0.0015	<0.0015	<0.151	<10.0
S-20-B4	20	<0.0011	<0.0011	<0.0011	<0.0011	<5.00	<10.1	<0.0011	<0.0274	<0.0011	<0.0011	<0.0011	<0.109	<10.0
S-25-B4	25	<0.0019	<0.0019	<0.0019	<0.0019	<5.00	<9.88	<0.0019	<0.0468	<0.0019	<0.0019	<0.0019	<0.187	29.8
S-30-B4	30	<0.0014	<0.0014	<0.0014	<0.0014	<5.00	<10.1	<0.0014	<0.0358	<0.0014	<0.0014	< 0.0014	<0.143	25.1
S-35-B4	35	<0.0013	<0.0013	<0.0013	<0.0013	<5.00	<10.1	<0.0013	<0.0319	<0.0013	<0.0013	<0.0013	<0.128	<10.0
S-40-B4	40	<0.0012	<0.0012	<0.0012	<0.0012	<5.00	<10.0	<0.0012	<0.0303	<0.0012	<0.0012	< 0.0012	<0.121	51.3
S-45-B4	45	<0.0014	<0.0014	<0.0014	<0.0014	<5.00	<9.88	<0.0014	<0.0356	<0.0014	<0.0014	<0.0014	<0.142	<10.0
S-50-B4	50	<0.0010	<0.0010	<0.0010	<0.0010	<5.00	<10.0	<0.0010	<0.0256	<0.0010	<0.0010	<0.0010	<0.102	<10.0
S-10-B5	10	0.0035	0.0027	0.0031	0.0148	<5.00	<10.1	<0.0013	< 0.0333	< 0.0013	<0.0013	<0.0013	<0.133	<10.0
S-15-B5	15	<0.0013	<0.0013	<0.0013	<0.0013	<5.00	<10.0	<0.0013	< 0.0325	<0.0013	<0.0013	<0.0013	<0.130	<10.0
S-20-B5	20	0.0018	<0.0016	<0.0016	0.0026	<5.00	<9.88	<0.0016	<0.0399	<0.0016	<0.0016	<0.0016	< 0.159	<10.0
S-25-B5	25	<0.0023	<0.0023	<0.0023	<0.0023	<5.00	<10.0	<0.0023	<0.0576	< 0.0023	< 0.0023	< 0.0023	< 0.230	199
S-30-B5	30	<0.0012	<0.0012	<0.0012	<0.0012	<5.00	<9.88	<0.0012	<0.0292	<0.0012	<0.0012	<0.0012	<0.117	17.3
S-35-B5	35	<0.0012	< 0.0012	<0.0012	< 0.0012	<5.00	<10.1	< 0.0012	< 0.0302	< 0.0012	< 0.0012	< 0.0012	<0.121	<10.0

## CUMULATIVE SOIL ANALYTICAL RESULTS

## MOBIL STATION 18MLJ 5005 NORTH LONG BEACH BOULEVARD

LONG BEACH, CALIFORNIA

Samples collected by Environmental Resolutions, Inc. on October 26 through 28, 2004 (continued). Concentrations reported in mg/kg.  S-45-B5 45 <0.0016								ERI 3163							
Samples collected by Environmental Resolutions, Inc. on October 26 through 28, 2004 (continued). Concentrations reported in mg/kg.  S-45-B5 45 <0.0016  0.0028  0.0073  0.0103  <5.00  <10.0  <0.0016  <0.0384  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0011  <0.0011  <0.0011  <0.0011  <0.0011  <0.0011  <0.0011  <0.0011  <0.0011  <0.0011  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0016  <0.0014  <0.0014  <0.0014  <0.0014  <0.0014  <0.0014  <0.0014  <0.0014  <0.0014  <0.0014  <0.0014  <0.0014  <0.0014  <0.0014  <0.0014  <0.0014  <0.0014  <0.0014  <0.0014  <0.0014  <0.0014  <0.0014  <0.0014  <0.0014  <0.0014  <0.0014  <0.0014  <0.0014  <0.0014  <0.0014  <0.0015  <0.0012  <0.0012  <0.0012  <0.0012  <0.0012  <0.0012  <0.0012  <0.0012  <0.0012  <0.0012  <0.0012  <0.0012  <0.0012  <0.0012  <0.0012  <0.0012  <0.0012  <0.0012  <0.0012  <0.0012  <0.0012  <0.0012  <0.0012  <0.0012  <0.0012  <0.0012  <0.0012  <0.0012  <0.0012  <0.0012  <0.0012  <0.0012  <0.0012  <0.0012  <0.0012  <0.0012  <0.0012  <0.0012  <0.0012  <0.0012  <0.0012  <0.0012  <0.0012  <0.0012  <0.0012  <0.0012  <0.0012  <0.0012  <0.0012  <0	Sample	Depth		-	Ethyl-	Total	-				· · ·				
Samples collected by Environmental Resolutions, Inc. on October 26 through 28, 2004 (continued). Concentrations reported in mg/kg.  S-45-B5 45 <0.0016	Number	(feet)	Benzene	Toluene	benzene	Xylenes	TPHg	TPHd	MTBE	TBA	DIPE	ETBE	TAME	Ethanol	Methanol
\$-45-B5	Samples c	collected by	/ Environmer	ntal Resolut	ions, Inc. or	October 2	6 through 28	3, 2004 (cor	ntinued). Co	ncentratio	ns reported	in mg/kg.	· "		
S-50-B5   50	S-45-B5	45	<0.0016	0.0028	0.0073	0.0103	<5.00				-		< 0.0016	<0.158	57.0
\$\frac{\color{10}{8}\cdot{10}{\color{10}}\$ 0.0058 0.0048 0.0016 0.0016 0.0016 0.0016 0.0016 0.0016 0.0016 0.0016 0.0016 0.0015 0.0014 0	S-50-B5	50	<0.0011	0.0131	0.0349	0.0558	<5.00	<9.92	< 0.0011	<0.0278	< 0.0011		<0.0011		
S-15-B6 15	S-10-B6	10	0.0058	0.0048	<0.0016	<0.0016	<5.00	<10.0	< 0.0016	<0.0388	< 0.0016		< 0.0016		
S-20-B6         20         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0013         <0.0013         <0.0013         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0013         <0.0013         <0.0013         <0.0013         <0.0013         <0.0013         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0013         <0.0014         <0.0014         <0.0014         <0.0013         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0	S-15-B6	15	<0.0015	<0.0015	<0.0015	<0.0015	<5.00	<9.80	< 0.0015	< 0.0382	< 0.0015	< 0.0015			
S-25-B6         25         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0013         <0.0013         <0.0013         <0.0013         <0.0013         <0.0013         <0.0014         <0.0014         <0.0014         <0.0013         <0.0013         <0.0013         <0.0013         <0.0013         <0.0013         <0.0013         <0.0013         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0013         <0.0013         <0.0013         <0.0014         <0.0014         <0.0013         <0.0014         <0.0014         <0.0014         <0.0014         <0.0013         <0.0014         <0.0014         <0.0013         <0.0014         <0.0014         <0.0013         <0.0012         <0.0012         <0.0012         <0.0012         <0.0012         <0.0012         <0.0012         <0.0012         <0.0012         <0.0012         <0.0012         <0.0012         <0.0012         <0.0012         <0.0012         <0.0012         <0.0012         <0.0012         <0.0012         <0.0012         <0.0012         <0.0012         <0.0012         <0.0012         <0	S-20-B6	20	<0.0014	<0.0014	<0.0014	<0.0014	<5.00	<10.1	< 0.0014	< 0.0362	< 0.0014	< 0.0014			
S-30-B6 30	S-25-B6	25	<0.0014	<0.0014	< 0.0014	<0.0014	<5.00	<10.1	<0.0014	< 0.0344	< 0.0014				
S-35-B6 35 0.0023 0.0015 <0.0014 <0.0014 <5.00 <10.0 <0.0014 <0.0353 <0.0014 <0.0014 <0.0014 <0.0014 <0.014 <10.0 S-40-B6 40 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <5.00 <10.1 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0013 <0.0013 <0.0013 <0.0013 <0.0013 <0.0013 <0.0013 <0.0013 <0.0013 <0.0013 <0.0013 <0.0013 <0.0013 <0.0013 <0.0013 <0.0013 <0.0013 <0.0013 <0.0013 <0.0013 <0.0013 <0.0013 <0.0013 <0.0013 <0.0010 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0	S-30-B6	30	< 0.0013	<0.0013	< 0.0013	< 0.0013	<5.00	<10.1	< 0.0013	< 0.0334	< 0.0013				
S-40-B6 40 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0012 <0.0013 <0.0013 <0.0013 <0.0013 <0.0013 <0.0013 <0.0013 <0.0013 <0.0013 <0.0013 <0.0013 <0.0013 <0.0013 <0.0013 <0.0013 <0.0013 <0.0013 <0.0013 <0.0013 <0.0013 <0.0013 <0.0013 <0.0013 <0.0013 <0.0013 <0.0013 <0.0013 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0	S-35-B6	35	0.0023	0.0015	< 0.0014	< 0.0014	<5.00	<10.0	< 0.0014	< 0.0353	< 0.0014				
S-45-B6         45         <0.0013         <0.0013         0.112         0.0608         <5.00         <10.1         <0.0013         <0.0013         <0.0013         <0.013         <0.013         <0.0013         <0.0013         <0.0013         <0.0013         <0.0013         <0.0013         <0.0013         <0.0013         <0.0013         <0.0013         <0.0013         <0.0013         <0.0013         <0.0013         <0.0013         <0.0013         <0.0013         <0.0013         <0.0013         <0.0013         <0.0013         <0.0013         <0.0013         <0.0013         <0.0013         <0.0013         <0.0013         <0.0013         <0.0013         <0.0013         <0.0013         <0.0013         <0.0013         <0.0013         <0.0013         <0.0013         <0.0013         <0.0013         <0.0013         <0.0013         <0.0013         <0.0013         <0.0013         <0.0013         <0.0013         <0.0013         <0.0013         <0.0013         <0.0013         <0.0013         <0.0013         <0.0013         <0.0013         <0.0013         <0.0013         <0.0013         <0.0013         <0.0013         <0.0013         <0.0013         <0.0017         <0.0017         <0.0017         <0.0017         <0.0017         <0.0017         <0.0017         <0.0017         <0.0015 <td>S-40-B6</td> <td>40</td> <td>&lt;0.0012</td> <td>&lt;0.0012</td> <td>&lt; 0.0012</td> <td>&lt; 0.0012</td> <td>&lt;5.00</td> <td>&lt;10.1</td> <td>&lt; 0.0012</td> <td>&lt; 0.0312</td> <td>&lt; 0.0012</td> <td></td> <td></td> <td></td> <td></td>	S-40-B6	40	<0.0012	<0.0012	< 0.0012	< 0.0012	<5.00	<10.1	< 0.0012	< 0.0312	< 0.0012				
S-50-B6   50   <0.0013   <0.0013   0.0930   0.0486   <5.00   <9.92   <0.0013   <0.0325   <0.0013   <0.0013   <0.0013   <0.0013   <0.130   <10.0013   <10.0013   <0.0013   <0.0013   <0.0013   <0.0013   <0.0013   <0.0013   <0.0013   <0.0013   <0.0013   <0.0013   <0.0014   <0.0016   <0.0016   <0.0016   <0.0017   <0.0017   <0.0017   <0.0017   <0.0017   <0.0017   <0.0017   <0.0017   <0.0017   <0.0017   <0.0017   <0.0017   <0.0017   <0.0017   <0.0018   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0016   <0.0	S-45-B6	45	< 0.0013	< 0.0013	0.112	0.0608	<5.00	<10.1	<0.0013	<0.0318	< 0.0013		< 0.0013		
Samples collected by Environmental Resolutions, Inc. on March 16, 2005. Concentrations reported in mg/kg.  S-10-B7 10 0.0063 0.0035 0.0026 0.0113 <4.87 J 67.7 <0.0017 <0.0427 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0171 <5.00  S-15-B7 15 0.0009 J <0.0016 <0.0016 <0.0016 <4.76 <1.00 J <0.0016 <0.0394 <0.0016 <0.0016 <0.0016 <0.0016 <0.158 <5.00  S-20-B7 20 0.0025 0.0075 0.0097 0.0567 <4.74 <1.01 J <0.0015 <0.0369 <0.0015 <0.0015 <0.0015 <0.0015 <0.0015 <0.0015 <0.0015 <0.0017 <0.0017 <5.00  S-25-B7 25 <0.0017 <0.0017 <0.0017 <0.0017 <5.01 <1.00 J <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <5.00  S-30-B7 30 0.0025 <0.0016 0.0011 J 0.0049 <4.87 6.37 <0.0016 <0.0408 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.163 <5.00  S-35-B7 35 0.0013 J <0.0018 0.0025 0.0154 <4.86 <1.01 J <0.0018 <0.0450 <0.0018 <0.0018 <0.0018 <0.0018 <0.180 <5.00  S-40-B7 40 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <4.94 <1.01 J <0.0018 <0.0456 <0.0019 <0.0019 <0.0019 <0.0019 <0.0186 <5.00  S-45-B7 45 <0.0018 <0.0018 <0.0018 <0.0018 <0.0012 J <4.97 <1.01 J <0.0018 <0.0456 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0182 <5.00  S-50-B7 50 <0.0017 <0.0017 <0.0017 <0.0017 <4.80 <1.00 J <0.0017 <0.0420 <0.0017 <0.0017 <0.0017 <0.0017 <0.168 <5.00  Samples collected by Environmental Resolutions, Inc. on May 31, June 1 and 2, 2005. Concentrations reported in µg/kg.  S-5-B8 5 3.5 1.6 J <2.7 <2.7 360 J 670 J 885 1070 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7										< 0.0325					
S-15-B7 15 0.0009 J <0.0016 <0.0016 <0.0016 <4.76 <1.00 J <0.0016 <0.0394 <0.0016 <0.0016 <0.0016 <0.0016 <0.0158 <5.00 <a href="#page-20">S-20-B7 20 0.0025 0.0075 0.0097 0.0567 &lt;4.74 &lt;1.01 J &lt;0.0015 &lt;0.0015 &lt;0.0369 &lt;0.0015 &lt;0.0017 &lt;0.0017 &lt;5.00 <a href="#page-20">S-25-B7 25 &lt;0.0017 &lt;0.0018 &lt;0.0016 &lt;0.0018 &lt;</a></a>	Samples c	collected by	Environmer	ntal Resolut	ions, Inc. or	March 16,	2005. Con	centrations	reported i	n mg/kg.		•			
S-20-B7 20 0.0025 0.0075 0.0097 0.0567 <4.74 <1.01 J <0.0015 <0.0369 <0.0015 <0.0015 <0.0015 <0.0015 <0.0147 <5.00 S-25-B7 25 <0.0017 <0.0017 <0.0017 <0.0017 <5.01 <1.00 J <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <5.00 S-30-B7 30 0.0025 <0.0016 0.0011 J 0.0049 <4.87 6.37 <0.0016 <0.0408 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0019 <0.0019 <0.0019 <4.94 <1.01 J <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0		10	0.0063	0.0035	0.0026	0.0113	<4.87 J	67.7	< 0.0017	<0.0427	<0.0017	< 0.0017	<0.0017	<0.171	<5.00
S-20-B7 20 0.0025 0.0075 0.0097 0.0567 <4.74 <1.01 J <0.0015 <0.0369 <0.0015 <0.0015 <0.0015 <0.0015 <0.0147 <5.00 S-25-B7 25 <0.0017 <0.0017 <0.0017 <0.0017 <5.01 <1.00 J <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0171 <5.00 S-30-B7 30 0.0025 <0.0016 0.0011 J 0.0049 <4.87 6.37 <0.0016 <0.0408 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0163 <5.00 S-35-B7 35 0.0013 J <0.0018 0.0025 0.0154 <4.86 <1.01 J <0.0018 <0.0450 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0180 <5.00 S-40-B7 40 <0.0019 <0.0019 <0.0019 <0.0019 <4.94 <1.01 J <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0		15		<0.0016	<0.0016	<0.0016	<4.76	<1.00 J	<0.0016	<0.0394	<0.0016	< 0.0016	<0.0016	<0.158	<5.00
S-30-B7 30 0.0025 <0.0016 0.0011 J 0.0049 <4.87 6.37 <0.0016 <0.0408 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <	S-20-B7	20	0.0025	0.0075	0.0097	0.0567	<4.74	<1.01 J	<0.0015	<0.0369	<0.0015	<0.0015	< 0.0015	<0.147	
S-30-B7 30 0.0025 <0.0016 0.0011 J 0.0049 <4.87 6.37 <0.0016 <0.0408 <0.0016 <0.0016 <0.0016 <0.0016 <0.0016 <0.163 <5.00   S-35-B7 35 0.0013 J <0.0018 0.0025 0.0154 <4.86 <1.01 J <0.0018 <0.0450 <0.0018 <0.0018 <0.0018 <0.0018 <0.018 <5.00   S-40-B7 40 <0.0019 <0.0019 <0.0019 <0.0019 <4.94 <1.01 J <0.0019 <0.0465 <0.0019 <0.0019 <0.0019 <0.0019 <0.186 <5.00   S-45-B7 45 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0012 J <4.97 <1.01 J <0.0018 <0.0456 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.018 <5.00   S-50-B7 50 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <4.80 <1.00 J <0.0017 <0.0420 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0168 <5.00   Samples collected by Environmental Resolutions, Inc. on May 31, June 1 and 2, 2005. Concentrations reported in µg/kg. S-5-B8 5 3.5 1.6 J <2.7 <2.7 360 J 670 J 885 1070 <2.7 <2.7 <2.7 <2.7 <2.7 <270 NA	S-25-B7				<0.0017	<0.0017	<5.01	<1.00 J	<0.0017	<0.0427	< 0.0017	< 0.0017	< 0.0017	<0.171	<5.00
S-35-B7 35 0.0013 J <0.0018 0.0025 0.0154 <4.86 <1.01 J <0.0018 <0.0450 <0.0018 <0.0018 <0.0018 <0.0018 <0.018 <5.00 <5.40-B7 40 <0.0019 <0.0019 <0.0019 <0.0019 <4.94 <1.01 J <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <5.00 <5.00 <5.45-B7 45 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0012 J <4.97 <1.01 J <0.0018 <0.0456 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.0018 <0.018 <5.00 <5.00 <5.50-B7 50 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <4.80 <1.00 J <0.0017 <0.0420 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.168 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <	S-30-B7	30	0.0025	<0.0016	0.0011 J	0.0049	<4.87	6.37	< 0.0016	<0.0408	< 0.0016	< 0.0016	< 0.0016		
S-40-B7 40 <0.0019 <0.0019 <0.0019 <0.0019 <4.94 <1.01 J <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.0019 <0.00	S-35-B7	35	0.0013 J		0.0025	0.0154	<4.86	<1.01 J	<0.0018	<0.0450	<0.0018	<0.0018	<0.0018	<0.180	
S-45-B7 45 <0.0018 <0.0018 <0.0018 0.0012 J <4.97 <1.01 J <0.0018 <0.0456 <0.0018 <0.0018 <0.0018 <0.0018 <0.018 <5.00 S-50-B7 50 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0.0017 <0	S-40-B7	40			<0.0019	<0.0019	<4.94	<1.01 J	<0.0019	< 0.0465	< 0.0019	< 0.0019	< 0.0019	<0.186	
S-50-B7       50       <0.0017       <0.0017       <0.0017       <4.80       <1.00 J       <0.0017       <0.0420       <0.0017       <0.0017       <0.0168       <5.00         Samples collected by Environmental Resolutions, Inc. on May 31, June 1 and 2, 2005.       Concentrations reported in μg/kg.         S-5-B8       5       3.5       1.6 J       <2.7	S-45-B7				<0.0018	0.0012 J	<4.97	<1.01 J	<0.0018	< 0.0456	<0.0018	<0.0018	<0.0018	<0.182	
Samples collected by Environmental Resolutions, Inc. on May 31, June 1 and 2, 2005. <b>Concentrations reported in μg/kg.</b> S-5-B8 5 3.5 1.6 J <2.7 <2.7 360 J 670 J 885 1070 <2.7 <2.7 <2.7 <270 NA									< 0.0017		< 0.0017	< 0.0017	<0.0017	<0.168	
	Samples c	collected by	Environmer	ntal Resolut	ions, Inc. or	May 31, Ju	une 1 and 2,	2005. Cor	ncentration	s reported	in μg/kg.				
Q 10 D0							360 J		885	1070	<2.7	<2.7	<2.7	<270	NA
	S-10-B8	10	7.3	5.8	1.2 J	1.6 J	11100	740 J	1.1 J	8540	<1.8	<1.8	<1.8	<177	NA
S-15-B8 15 1.3 J 1.3 J 0.9 J 1.2 J 700 J 920 J 2.0 7900 <1.7 <1.7 <1.7 <167 NA					0.9 J	1.2 J	700 J		2.0	7900	<1.7	<1.7	<1.7	<167	NA
S-20-B8 20 1.1 J <1.5 53.4 1.5 1890 620 J 15.8 3140 <1.5 <1.5 <1.5 <1.5 NA					53.4	1.5	1890		15.8	3140	<1.5	<1.5	<1.5	<152	
S-25-B8 25 16.0 3.5 15.3 26.2 400 J 780 J 224 545 <1.8 <1.8 <1.8 <180 NA					15.3	26.2	400 J	780 J	224	545	<1.8	<1.8	<1.8	<180	NA
S-30-B8 30 1.4 J 1.6 J 271 45.9 1210 640 J 7.2 <43.7 <1.7 <1.7 <1.7 <17 NA					271	45.9	1210		7.2	<43.7	<1.7	<1.7	<1.7	<175	
S-35-B8 35 <1.6 <1.6 1.0 J <1.6 <1000 560 J <1.6 <40.8 <1.6 <1.6 <1.6 <163 NA					1.0 J	<1.6	<1000		<1.6	<40.8	<1.6	<1.6	<1.6	<163	NA
S-40-B8 40 0.7 J 46.1 643 1270 12900 106000 <1.8 <46.0 <1.8 <1.8 <1.8 <184 NA				46.1	643	1270	12900	106000	<1.8	<46.0	<1.8	<1.8	<1.8	<184	NA
S-5-B9 5 8.6 451 260 1210 <1000 760 J 799 <46.5 <1.9 <1.9 <1.9 <186 NA				451	260	1210	<1000		799	.<46.5	<1.9	<1.9	<1.9	<186	NA
S-10-B9 10 3.0 4.4 2.0 7.5 6380 720 J 9400 1150 <1.7 <1.7 4.8 <171 NA			3.0	4.4	2.0		6380	720 J	9400	1150	<1.7	<1.7	4.8	<171	
S-15-B9 15 91.8 2320 3520 22700 180000 2590 12800 <41.0 <1.6 <1.6 <1.6 <1.6 NA				2320	3520	22700	180000	2590	12800	<41.0	<1.6	<1.6	<1.6	<164	
S-20-B9 20 831 74400 47600 275000 539000 5790 31700 11400 <78.7 <78.7 <78.7 <78.7 NA	-		831	74400	47600	275000	539000	5790	31700	11400	<78.7	<78.7	<78.7	<7870	
S-25-B9 25 34.3 445 140 705 1800000 43400 6850 625 <1.4 <1.4 <1.4 <137 NA					140	705	1800000	43400	6850	625	<1.4	<1.4	<1.4		
S-30-B9 30 <1.6 J 17.4 1800 105 316000 13800 11.5 <41.7 <1.7 <1.7 <1.7 <167 NA					1800	105	316000	13800	11.5	<41.7	<1.7				
S-35-B9 35 7.3 1330 1020 5770 9570 2240 1050 363 <1.8 <1.8 <1.8 <180 NA					1020	5770	9570		1050	363	<1.8	<1.8			
<u>S-40-B9 40 &lt;86.2 47.4 J 77.6 J 172 1060000 129000 64.7 J &lt;2160 &lt;86.2 &lt;86.2 &lt;86.2 &lt;86.2 NA</u>	S-40-B9	40	<86.2	47.4 J	77.6 J	172	1060000	129000	64.7 J	<2160	<86.2	<86.2		<8620	

## CUMULATIVE SOIL ANALYTICAL RESULTS

## MOBIL STATION 18MLJ 5005 NORTH LONG BEACH BOULEVARD

LONG BEACH, CALIFORNIA ERI 3163

Sample	Depth			Ethyl-	Total		,	-						
Number	(feet)	Benzene	Toluene	benzene	Xylenes	TPHg	TPHd	MTBE	TBA	DIPE	ETBE	TAME	Ethanol	Methanol
Samples co	ollected by	/ Environmer	ntal Resolut	tions, Inc. or	n May 31, Ju	ine 1 and 2	, 2005 (con	tinued). Co	ncentration	s reported	in ug/kg.			-
S-5-B10	5	5.9	5.9	0.9 J	<2.1	<100	1060	33.2	43.7 J	<2.1	<2.1	<2.1	<211	NA
S-10-B10	10	3.5	3.1	<2.0	<2.0	100	750 J	32.5	152	<2.0	<2.0	<2.0	<196	NA
S-15-B10	15	1.8 J	1.9	<1.9	<1.9	400	2770	552	716	<1.9	<1.9	<1.9	<187	NA
S-20-B10	20	1.8	2.4	2.6	11.1	<100	4640	253	58.4	<1.5	<1.5	<1.5	<154	NA
S-25-B10	25	6.1	13.8	95.1	165	<100	760 J	194	<69.4	<2.8	<2.8	<2.8	<278	NA
S-30-B10	30	0.8 J	1.7 J	1.2 J	3.6	<100	920 J	20.7	21.2 J	<1.8	<1.8	<1.8	<175	NA
S-35-B10	35	1.2 J	1.2 J	1.3 J	<1.7	<100	440 J	8.9	<43.0	<1.7	<1.7	<1.7	<172	NA
S-40-B10	40	1.3 J	1.5 J	3.4	6.8	110	1130	29.6	<46.5	<1.9	<1.9	<1.9	<186	NA
S-10-B11	10	7.3	5.8	<1.6	10.3	<1000	NA	666	51.6	<1.6	<1.6	<1.6	<164	NA
S-15-B11	15	<1.7	<1.7	<1.7	25.1	<1000	NA	168	<42.1	<1.7	<1.7	<1.7	<168	NA
S-20-B11	20	<1.5	<1.5	<1.5	2.9	<1000	NA	27.4	<38.3	<1.5	<1.5	<1.5	<153	NA
S-25-B11	25	<1.8	<1.8	<1.8	<1.8	<1000	NA	15.4	<43.9	<1.8	<1.8	<1.8	<175	NA
S-30-B11	30	<1.7	<1.7	<1.7	<1.7	<1000	NA	<1.7	<43.4	<1.7	<1.7	<1.7	<174	NA
S-35-B11	35	<2.0	<2.0	<2.0	<2.0	<1000	NA	<2.0	<49.2	<2.0	<2.0	<2.0	<197	NA
S-40-B11	40	<2.0	<2.0	<2.0	<2.0	<1000	NA	<2.0	<49.3	<2.0	<2.0	<2.0	<197	NA

## **EXPLANATION:**

mg/kg = milligrams per kilogram;

µg/kg = micrograms per kilogram

BTEX = benzene, toluene, ethylbenzene and total xylenes

DIPE = di-isopropyl ether

ETBE = ethyl tertiary butyl ether

MTBE = methyl tertiary butyl ether analyzed by Environmental Protection Agency Method 8260B

TAME = tertiary amyl methyl ether

TBA = tertiary butyl alcohol

TPHd = total petroleum hydrocarbons as diesel

TPHg = total petroleum hydrocarbons as gasoline

(a) = samples analyzed for total lead; results were: SP6, 8.27 mg/kg; SP7, 13.2 mg/kg

D = dispenser island; P = product line; SP = stockpile

J = estimated value between method detection limit and practical quantitation limit

NA = not analyzed

<8620 = not detected at or above stated laboratory reporting limit

## WATER LEVEL MEASUREMENTS AND GROUNDWATER ANALYSES

## MOBIL STATION 18MLJ

## 5005 NORTH LONG BEACH BOULEVARD LONG BEACH, CALIFORNIA

ERI 3163

MW1	ELEV:	41.10				-			
DATE	GW DEPTH	GW ELEV.	В	Т	E	X	TPHg	MTBE	TBA
08/04/05	27.92	13.18	<0.500	<0.500	<0.500	<0.500	308	1.47	<10.0
MW2	ELEV:	39.55							
DATE	GW DEPTH	GW ELEV.							-
08/04/05	26.62	12.93	6.26	181	855	307	5820	435	129
MW3	ELEV:	40.84							
DATE	GW DEPTH	GW ELEV.			-				
08/04/05	27.61	13.23	0.730	<0.500	1.06	<0.500	159	140	<10.0
MW4	ELEV:	39.10		+		-			
DATE	GW DEPTH	GW ELEV.							
08/04/05	26.21	12.89	0.510	<0.500	<0.500	<0.500	1950	<1.00	51.4
MW5	ELEV:	38.72				-			
DATE	GW DEPTH	GW ELEV.							
08/04/05	26.08	12.64	5.14	54.9	140	229	2000	4.40	216
MW6	ELEV:	39.21							
DATE	GW DEPTH	GW ELEV.						-	
08/04/05	26.44	12.77	<0.500	1.94	685	94.3	4910	1.91	<10.0
MW7	ELEV:	41.14							
DATE	GW DEPTH	GW ELEV.							_
08/04/05	27.79	13.35	<0.500	<0.500	<0.500	<0.500	79.0	<1.00	47.2

## EXPLANATION:

Results in micrograms per liter (ug/l).

GW = groundwater; ELEV = elevation

B = benzene; T = toluene; E = ethylbenzene; X = total xylene isomers; TPHg = total petroleum hydrocarbons as gasoline

MTBE = methyl tertiary butyl ether analyzed by EPA Method 8260B

TBA = tertiary butyl alcohol

<10.0 = not detected at or above stated laboratory reporting limit

## CUMULATIVE WATER LEVEL MEASUREMENTS AND GROUNDWATER ANALYSES

#### MOBIL STATION 18MLJ

## 5005 NORTH LONG BEACH BOULEVARD

## LONG BEACH, CALIFORNIA

Date	Well Elev	GW Depth	GW Elev	LPH	Benzene (ug/l)	Toluene (ug/l)	Ethyl- benzene (ug/l)	Xylenes (ug/l)	TPHg (ug/l)	TPHd (ug/l)	TRPH (ug/l)	MTBE (ug/l)	DIPE (ug/l)	ETBE (ug/l)	TAME (ug/l)	TBA (ug/l)	Ethanol (ug/l)	Methanol (ug/l)
Field Point	MW1															1-0-7	(-3-7	1-3-7
4/17/2003	41.10	29.66	11.44	no	<1.00	<1.00	<1.00	<1.00	230	133	<100	<2.00	<1.00	<1.00	<1.00	<10.0	<1000	<10000
8/26/2003	41.10	29.52	11.58	no	<1.00	<1.00	<1.00	<1.00	97.4	<500		<2.00	<1.00	<1.00	<1.00	<10.0	<1000	<10000
11/14/2003	41.10	29.88	11.22	no	<1.00	<1.00	<1.00	<1.00	<50.0	<500		<2.00	<1.00	<1.00	<1.00	<10.0		
2/21/2004	41.10	30.03	11.07	no	<1.00	<1.00	<1.00	<1.00	<50.0	<500		<2.00	<1.00	<1.00	<1.00	<10.0	<1000	<10000
4/30/2004	41.10	29.85	11.25	no	<1.00	<1.00	<1.00	<1.00	<50.0	<500		<2.00	<1.00	<1.00	<1.00	69.0		
7/10/2004	41.10	30.50	10.60	no	<1.00	<1.00	<1.00	<1.00	231	<500		2.90	<1.00	<1.00	<1.00	<10.0		
11/5/2004	41.10	30.52	10.58	no	<1.00	<1.00	<1.00	<1.00	<50.0	<500		<2.00	<1.00	<1.00	<1.00	<10.0		
3/21/2005	41.10	29.21	11.89	no	0.70	<0.50	0.60	3.40	<50.0	<500		6.10	<1.00	<1.00	1.00	17.0	<200	<5000
6/2/2005	41.10	28.32	12.78	no	<0.50	<0.50	<0.50	<0.50	82.9	<500		1.90	<1.00	<1.00	<1.00	9.20 J		
8/4/2005	41.10	27.92	13.18	no	<0.500	<0.500	<0.500	<0.500	308	<500		1.47	<1.00	<1.00	<1.00	<10.0	***************************************	
Field Point	MW2																	
4/17/2003	39.55	28.43	11.12	no	5.90	3660	1340	3940	19900	2980	<100	131	<1.00	<1.00	<1.00	<10.0	<1000	<10000
8/26/2003	39.55	28.31	11.24	no	118	1220	1260	625	15600	1490		5200	<1.00	<1.00	5.70	85.1	<1000	<10000
11/14/2003	39.55	28.66	10.89	no	68.0	1280	1280	770	9810	1110		4260	<1.00	<1.00	<1.00	142		
2/21/2004	39.55	28.82	10.73	no	47.1	560	1220	775	10600	1710		975	<1.00	<1.00	<1.00	56.5	<1000	<10000
4/30/2004	39.55	28.62	10.93	no	61.0	424	1390	550	9090	872		1040	<1.00	<1.00	<1.00	<10.0		
7/10/2004	39.55	29.34	10.21	no	60.4	348	1260	402	8260	1220		920	<1.00	<1.00	<1.00	125		
11/5/2004	39.55	29.31	10.24	no	66.7	238	930	190	6360	878		220	<1.00	<1.00	<1.00	<10.0		
3/21/2005	39.55	27.96	11.59	no	80.7	125	538	90.1	2670	<500		1370	<1.00	0.60 J	0.70 J	522	<200	<5000
3/21/2005	39.55	27.96	11.59	no	80.7	125	538	90.1	2670	<500		1370	<1.00	0.60 J	0.70 J	522	<200	

## CUMULATIVE WATER LEVEL MEASUREMENTS AND GROUNDWATER ANALYSES

#### MOBIL STATION 18MLJ

## 5005 NORTH LONG BEACH BOULEVARD

## LONG BEACH, CALIFORNIA

Date	Well Elev	GW Depth	GW Elev	LPH	Benzene (ug/l)	Toluene (ug/l)	Ethyl- benzene (ug/l)	Xylenes (ug/l)	TPHg (ug/l)	TPHd (ug/l)	TRPH (ug/l)	MTBE (ug/l)	DIPE (ug/l)	ETBE (ug/l)	TAME (ug/l)	TBA (ug/l)	Ethanol (ug/l)	Methanol (ug/l)
6/2/2005	39.55	27.02	12.53	no	307	124	1630	277	16000	510		6780	<1.00	<1.00	<1.00	3550		
8/4/2005	39.55	26.62	12.93	no	6.26	181	855	307	5820	101 J		435	<1.00	<1.00	<1.00	129		
Field Point	MW3			~~				***************************************										
4/17/2003	40.84	29.34	11.50	no	<1.00	<1.00	1.50	7.70	2530	916	<100	105	<1.00	<1.00	<1.00	45.4	<1000	<10000
8/26/2003	40.84	29.26	11.58	no	<1.00	<1.00	1.60	<1.00	162	<500		112	<1.00	<1.00	<1.00	<10.0	<1000	<10000
11/14/2003	40.84	29.57	11.27	no	<1.00	<1.00	2.40	<1.00	179	<500		87.2	<1.00	<1.00	<1.00	<10.0		
2/21/2004	40.84	29.73	11.11	no	1.20	<1.00	2.30	<1.00	170	<500		116	<1.00	<1.00	<1.00	<10.0	<1000	<10000
4/30/2004	40.84	29.57	11.27	no	<1.00	<1.00	2.00	6.40	138	<500		137	<1.00	<1.00	<1.00	<10.0		
7/10/2004	40.84	30.31	10.53	no	<1.00	<1.00	2.80	<1.00	139	<500		89.6	<1.00	<1.00	<1.00	<10.0		
11/5/2004	40.84	30.25	10.59	no	1.50	<1.00	4.30	<1.00	181	<500		182	<1.00	<1.00	<1.00	50.3		
3/21/2005	40.84	28.88	11.96	no	2.60	<0.50	1.20	1.00	222	<500		120	<1.00	<1.00	<1.00	97.4	<200	<5000
6/2/2005	40.84	28.01	12.83	no	0.80	<0.50	0.50	<0.50	260	<500		167	<1.00	<1.00	<1.00	105		
3/4/2005	40.84	27.61	13.23	no	0.730	<0.500	1.06	<0.500	159	<500		140	<1.00	<1.00	<1.00	<10.0		
Field Point	MW4																	<u></u>
11/5/2004	39.10	30.85	8.25	no	23.7	<1.00	<1.00	<1.00	247	<500		27.1	<1.00	<1.00	<1.00	5760		
3/21/2005	39.10	27.51	11.59	no	35.6	<0.50	0.90	13.8	2060	831		76.6	<1.00	1.20	1.10	49700	<200	1800 J
6/2/2005	39.10	26.62	12.48	no	8.70	<0.50	0.50	<0.50	538	<500		60.9	<1.00	<1.00	<1.00	19300		
3/4/2005	39.10	26.21	12.89	no	0.510	<0.500	<0.500	<0.500	1950	<500		<1.00	<1.00	<1.00	<1.00	51.4		
Field Point	MW5																	
11/5/2004	38.72	28.74	9.98	no	<1.00	119	280	900	6520	1330		<2.00	<1.00	<1.00	<1.00	<10.0		
3/21/2005	38.72	27.39	11.33	no	23.1	<0.50	8.10	1.40	1420	560		9.70	<1.00	<1.00	<1.00	5250	<200	<5000

## CUMULATIVE WATER LEVEL MEASUREMENTS AND GROUNDWATER ANALYSES

#### MOBIL STATION 18MLJ

## 5005 NORTH LONG BEACH BOULEVARD

## LONG BEACH, CALIFORNIA

Date	Well Elev	GW Depth	GW Elev	LPH	Benzene (ug/l)	Toluene (ug/l)	Ethyl- benzene (ug/l)	Xylenes (ug/l)	TPHg (ug/l)	TPHd (ug/l)	TRPH (ug/l)	MTBE (ug/l)	DIPE (ug/l)	ETBE (ug/l)	TAME (ug/l)	TBA (ug/l)	Ethanol (ug/l)	Methanol (ug/l)
6/2/2005	38.72	26.48	12.24	no	0.90	2.40	1.80	2.90	315	<500		2.00	<1.00	<1.00	<1.00	697		
8/4/2005	38.72	26.08	12.64	no	5.14	54.9	140	229	2000	<500		4.40	<1.00	<1.00	<1.00	216		
Field Point	MW6					***************************************											••••••	
11/5/2004	39.21	29.11	10.10	no	3.50	5.00	1120	404	8090	1580		<2.00	<1.00	<1.00	<1.00	<10.0		
3/21/2005	39.21	27.76	11.45	no	<0.50	<0.50	585	122	3960	749		<1.00	<1.00	<1.00	<1.00	<50.0	<200	1200 J
6/2/2005	39.21	26.85	12.36	no	<0.50	0.40 J	826	116	5330	<500		<1.00	<1.00	<1.00	<1.00	<10.0		
8/4/2005	39.21	26.44	12.77	no	<0.500	1.94	685	94.3	4910	197 J		1.91	<1.00	<1.00	<1.00	<10.0		
Field Point	MW7				7771													
3/21/2005	41.14	29.09	12.05	no	<0.50	<0.50	<0.50	<0.50	<50.0	<500		0.50 J	<1.00	<1.00	<1.00	4.70 J	<200	<5000
6/2/2005	41.14	28.13	13.01	no	<0.50	0.30 J	<0.50	<0.50	<50.0	<500		<1.00	<1.00	<1.00	<1.00	<10.0		
8/4/2005	41.14	27.79	13.35	no	<0.500	<0.500	<0.500	<0.500	79.0	<500		<1.00	<1.00	<1.00	<1.00	47.2		
Field Point	Trip Blank							~~~~										
4/17/2003				no	<1.00	<1.00	<1.00	<1.00	<50.0			<2.00	<1.00	<1.00	<1.00	<10.0	<1000	<10000
8/26/2003				no	<1.00	<1.00	<1.00	<1.00	<50.0			<2.00	<1.00	<1.00	<1.00	<10.0		
11/14/2003				no	<1.00	<1.00	<1.00	<1.00	<50.0			<2.00	<1.00	<1.00	<1.00	<10.0		
2/21/2004				no	<1.00	<1.00	<1.00	<1.00	<50.0			<2.00	<1.00	<1.00	<1.00	<10.0		
4/30/2004				no	<1.00	1.00	<1.00	<1.00	<50.0		-	<2.00	<1.00	<1.00	<1.00	<10.0		
7/10/2004				no	<1.00	<1.00	<1.00	<1.00	50.0	******		<2.00	<1.00	<1.00	<1.00	<10.0		
11/5/2004				no	<1.00	<1.00	<1.00	<1.00	<50.0			<2.00	<1.00	<1.00	<1.00	<10.0		
3/21/2005				no	<0.50	<0.50	<0.50	<0.50	<50.0			<1.00	<1.00	<1.00	<1.00	<10.0		
8/2/2005				no	<0.50	<0.50	<0.50	<0.50	<50.0			<1.00	<1.00	<1.00	<1.00	<10.0		

## CUMULATIVE WATER LEVEL MEASUREMENTS AND GROUNDWATER ANALYSES

#### **MOBIL STATION 18MLJ**

## 5005 NORTH LONG BEACH BOULEVARD

## LONG BEACH, CALIFORNIA

Date	Well Elev	GW Depth	GW Elev	LPH	Benzene (ug/l)	Toluene (ug/l)	Ethyl- benzene (ug/l)	Xylenes (ug/l)	TPHg (ug/l)	TPHd (ug/l)	TRPH (ug/l)	MTBE (ug/l)	DIPE (ug/l)	ETBE (ug/l)	TAME (ug/l)	TBA (ug/l)	Ethanol (ug/l)	Methanol (ug/l)
8/4/2005				no	<0.500	<0.500	<0.500	<0.500	<50.0			<1.00	<1.00	<1.00	<1.00	<10.0		

## **CUMULATIVE WATER LEVEL MEASUREMENTS AND GROUNDWATER ANALYSES**

#### **MOBIL STATION 18MLJ**

## 5005 NORTH LONG BEACH BOULEVARD

LONG BEACH, CALIFORNIA

ERI 3163

Explanation:

ELEV = elevation

EPA = Environmental Protection Agency

GW = groundwater

DIPE = di-isopropyl ether

ETBE = ethyl tertiary butyl ether

TAME = tertiary amyl methyl ether TBA = tertiary butyl alcohol

TPHd = total petroleum hydrocarbons as diesel

TPHd = total petroleum hydrocarbons as diesei
TPHg = total petroleum hydrocarbons as gasoline
TRPH = total recoverable petroleum hydrocarbons
MTBE = methyl tertiary butyl ether
MTBE analyzed by EPA Method 8260B.

LPH = liquid phase hydrocarbons (thickness measured in feet)

J = estimated value between method detection limit and practical quantification limit

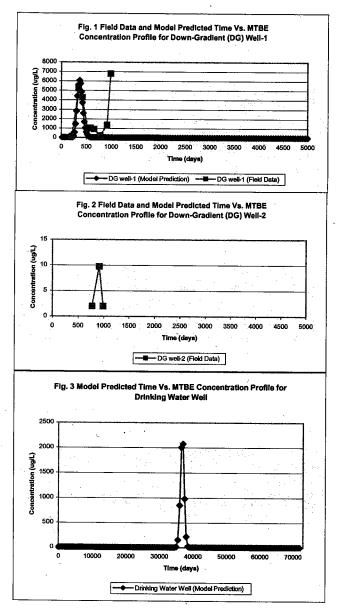
<10000 = not detected at or above stated laboratory reporting limit

ug/l = micrograms per liter

## California Regional Water Quality Control Board Non-Steady State Transport Model Mobil Station 18JR1 2001 West Alondra Boulevard, Compton, California CRWQCB - Los Angeles Region Case No. R-09372

Exxo Mobil Oil Corporation Station 18MLI, 5005 N. Lo X axis dispersivity Y axis dispersivity Distance parallel to direction of GW flow Distance perpendicular to direction of GW flow Groundwater velocity Source concentration Rate of discharge Discharge duration or dt Mass discharged per unit depth (C <sub>o</sub> Qdt)  Distance (X <sub>2</sub> ) to DG well 2 Distance (Y <sub>2</sub> ) perpendicular to direction of flow Distance (X <sub>3</sub> ) to drinking water well Distance (Y <sub>3</sub> ) perpendicular to direction of flow	ng Beach Blyd., Long Beac Range  0.25 ft 0.1-10  0.0825 ft (0.33-0.65) D  20 ft. 5 ft 0.059 ft/day 0.01-3.0  4.24E+06 ug/L 4.24E+03  25 ft <sup>2</sup> /yr mg/L  8.33E-02 yr  2.50E+08 ug/ft 2.50E+02 g/ft 100 ft 2 ft 2170 ft	Soil Type Gravel Coarse Sand Clean Sand Fine Sand Silty Sand Sandy Silt Sulty Soil Type poorly sorted sand Silt and sandy silt 0-20 fbgs Sand 20 fbgs - TD	Velocity Range up to 3 ft/d up to 1.5 ft/d up to 1.0 ft/d up to 9.5 ft/d up to 0.1 ft/d up to 0.1 ft/d 0.01 ft/d Date 2nd? Release Disc'd Apr-03 Date of 1st Monit. Event 4/17/2003 GW at ~ 28 fbg
Maximum concentration in drinking water well Time when plume reached its peak in DW well Time when plume first reached 5 ug/L in DW well Time remaining for plume to reach 5 ug/L in DW well	2074.02 ug/L 37000 days 35000 days 91.3 years	Sand 20 logs - 1D	
Well Name  Downgradient Well 1 at T <sub>1</sub> T <sub>2</sub> T <sub>3</sub> T <sub>4</sub> T <sub>5</sub> T <sub>6</sub> T <sub>7</sub> T <sub>8</sub> T <sub>9</sub> T <sub>10</sub>	Well-No Distance(x) Distance(y)  MW2 20 S	C (ug/L)  131 5200 4260 975 1040 920 220 1370 6780	Time (days)  210 341 421 520 589 660 778 914 987
T <sub>12</sub> T <sub>13</sub> T <sub>14</sub> T <sub>15</sub> Date of Last Record Downgradient Well 2 at T <sub>1</sub> T <sub>2</sub> T <sub>3</sub>	MW5 100 1 2		778 914 987
T <sub>4</sub>		Date of First Record	

## California Regional Water Quality Control Board Non-Steady State Transport Model Mobil Station 18JR1 2001 West Alondra Boulevard, Compton, California CRWQCB - Los Angeles Region Case No. R-09372



Time ( > 5 ug/L) Time (Peak) Max Conc 2074.0238

4/17/2003			
8/26/2003	131.00		1
11/14/2003	80.00		
2/21/2004	99.00		
4/30/2004	69.00		
7/10/2004	71.00		
11/5/2004	118.00	11/5/2004	568.00
3/21/2005	136.00	3/21/2005	136.00
6/2/2005	73.00	6/2/2005	73.00



## **ORIGINAL**



2960 Foster Creighton Road Nashville, TN 37204 \* 800-765-0980 \* Fax 615-726-3404

September 29, 2005

Client:

ERI Lake Forest (10203)

20372 North Sea Circle

Lake Forest, CA 92630

Attn:

George Salley

Work Order:

NOH0407

Project Name: E

Exxon 18-MLJ PO:4506125986

Project Nbr:

ERI 3163 13

Date Received: 08/06/05

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME				
W-27-MW1	NOH0407-01	08/04/05 13:23				
W-26-MW2	NOH0407-02	08/04/05 13:48				
W-27-MW3	NOH0407-03	08/04/05 13:28				
W-26-MW4	NOH0407-04	08/04/05 13:56				
W-26-MW5	NOH0407-05	08/04/05 13:51				
W-26-MW6	NOH0407-06	08/04/05 13:38				
W-27-MW7	NOH0407-07	08/04/05 13:18				
Trip Blanks	NOH0407-08	08/04/05				

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation.

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These results relate only to the items tested. This report shall not be reproduced except in full and with permission of the laboratory. Report Approved By:

Roxanne Connor

Senior Project Manager

Roxarre L. Connor



Client ERI Lake Forest (10203)

20372 North Sea Circle

Lake Forest, CA 92630

George Salley Attn

Work Order:

NOH0407

Project Name:

Exxon 18-MLJ PO:4506125986

Project Number: ERI 3163 13 Received:

08/06/05 08:00

ANALYTICAL :	REPORT
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							Dilutio	on Analysis			
Analyte	Result	Flag	Units	MDL		MRL		r Date/Time	Method	Analyst	Batch
Sample ID: NOH0407-01 (W-27-	-MW1 -	Water)	= Sampled:	 : 08/04/04	 5 13:2	 23					
Oxygenates by EPA 8260B		,	,		10.2						
Tert-Amyl Methyl Ether	<1.00		ug/L	0.300		1.00	•	00/10/05 05 05			
Benzene	< 0.500		ug/L ug/L			1.00	1	08/10/05 05:22		hp4	5080618
Ethyl tert-Butyl Ether	<1.00		ug/L ug/L	0.250		0.500	1	08/10/05 05:22		hp4	5080618
Ethylbenzene	< 0.500		ug/L ug/L	0.270 0.190		1.00	1	08/10/05 05:22		hp4	5080618
Isopropyl Ether	<1.00		ug/L ug/L	0.190		0.500	1	08/10/05 05:22		hp4	5080618
Methyl tert-Butyl Ether	1.47		ug/L ug/L	0.130		1.00	1	08/10/05 05:22		hp4	5080618
Toluene	< 0.500		ug/L ug/L	0.230		1.00	1	08/10/05 05:22		hp4	5080618
Tertiary Butyl Alcohol	<10.0		ug/L ug/L	4.28		0.500	1	08/10/05 05:22		hp4	5080618
Xylenes, total	< 0.500		ug/L ug/L	0.330		10.0 0.500	1	08/10/05 05:22		hp4	5080618
Surrogate: 1,2-Dichloroethane-d4 (73-127%)	123 %		ug/L	0.330	(	0.500	1	08/10/05 05:22		hp4	5080618
Surrogate: Dibromofluoromethane (75-137%)			-		-		_	/10/05 05:22	SW846 8260B	hp4	5080618
Surrogate: Toluene-d8 (79-113%)	110 %		-		-			/10/05 05:22	SW846 8260B	hp4	5080618
Surrogate: 4-Bromofluorobenzene (79-125%)	111 %		-		-			/10/05 05.22	SW846 8260B	hp4	5080618
,	111 /0		-		-		1 08.	/10/05 05:22	SW846 8260B	hp4	5080618
Extractable Petroleum Hydrocarbons											
Diesel range organics	<500		ug/L	33.0		500	1	08/10/05 15:28	CA LUFT	bay	5080469
Surrogate: o-Terphenyl (55-150%)	97 %		-		-		1 08	/10/05 15:28	CA LUFT	bay	5080469
Purgeable Petroleum Hydrocarbons										-	
GRO (C4-C12)	308		ug/L	33.0		50.0	1	08/09/05 20:50	CA LUFT		5000505
Surrogate: a,a,a-Trifluorotoluene (63-134%)	91 %		49.1	33.0		30.0	-	08/09/03 20:30 /09/05 20:50	CA LUFT	kc <i>kc</i>	5080535 5080535
Sample ID: NOH0407-02 (W-26-)	MW2 - V	Water) S	Sampled:	08/04/05	13:4	8					
Oxygenates by EPA 8260B											
Tert-Amyl Methyl Ether	<1.00		ug/L	0.300		1.00	1	08/10/05 12:10	SW846 8260B	hp4	5080618
Benzene	6.26		ug/L	0.250	0	.500	1	08/10/05 12:10	SW846 8260B	hp4	5080618
Ethyl tert-Butyl Ether	<1.00		ug/L	0.270	i	1.00	1	08/10/05 12:10	SW846 8260B	hp4	5080618
Ethylbenzene	855		ug/L	3.80	]	10.0	20	08/10/05 12:39	SW846 8260B	hp4	5080618
Isopropyl Ether	<1.00		ug/L	0.180	]	1.00	1	08/10/05 12:10	SW846 8260B	hp4	5080618
Methyl tert-Butyl Ether	435		ug/L	4.60		20.0	20	08/10/05 12:39		hp4	5080618
Toluene	181		ug/L	0.170	0	.500	1	08/10/05 12:10	SW846 8260B	hp4	5080618
Tertiary Butyl Alcohol	129		ug/L	4.28		10.0	1	08/10/05 12:10	SW846 8260B	hp4	5080618
Xylenes, total	307		ug/L	0.330	0	.500	1	08/10/05 12:10	SW846 8260B	hp4	5080618
Surrogate: 1,2-Dichloroethane-d4 (73-127%)	117 %		-		-		1 08/	10/05 12:10	SW846 8260B	hp4	5080618
Surrogate: 1,2-Dichloroethane-d4 (73-127%)	115 %		-		-		1 08/	10/05 12:39	SW846 8260B	hp4	5080618
Surrogate: Dibromofluoromethane (75-137%)	110 %		-		-		1 08/	10/05 12:10	SW846 8260B	hp4	5080618
Surrogate: Dibromofluoromethane (75-137%)	110 %		•		-		1 08/	10/05 12:39	SW846 8260B	hp4	5080618
Surrogate: Toluene-d8 (79-113%)	102 %		-		-		1 08/.	10/05 12:10	SW846 8260B	hp4	5080618
Surrogate: Toluene-d8 (79-113%)	109 %		-		-		1 08/.	10/05 12:39	SW846 8260B	hp4	5080618
Surrogate: 4-Bromofluorobenzene (79-125%)	106 %		-		-		1 08/	10/05 12:10	SW846 8260B	hp4	5080618
Surrogate: 4-Bromofluorobenzene (79-125%)	106 %		-		-		1 08/	10/05 12:39	SW846 8260B	hp4	5080618
Extractable Petroleum Hydrocarbons											
Diesel range organics	101	J	ug/L	33.0	5	500	1	08/10/05 15:45	CA LUFT	bay	5080469
Surrogate: o-Terphenyl (55-150%)	87 %		<u> </u>	<del>-</del>	_			10/05 15:45	CA LUFT	-	5080469 5080469
Purgeable Petroleum Hydrocarbons			-		-	•	, 00/1	. 0. 00 10.70		bay .	JUUU7U7
a a godolo i cu olodin riydrocaroons											



ANALYTICAL TESTING CORPORATION

Client ERI Lake Forest (10203)

20372 North Sea Circle Lake Forest, CA 92630

Attn George Salley Work Order:

NOH0407

Project Name:

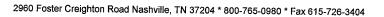
Exxon 18-MLJ PO:4506125986

Project Number: ERI 3163 13 Received:

08/06/05 08:00

ANALY	TICAL	REPORT
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						Dilution	n Analysis			
Analyte	Result	Flag	Units	MDL	MRL		Date/Time	Method	Analyst	Batch
Sample ID: NOH0407-02RE1 (V	V-26-MW	V2 - Wa	 ter) - con	t. Sample	 1: 08/04/0	 5 13:48		· – – –	- <b></b>	
Purgeable Petroleum Hydrocarbons -			,			22010				
GRO (C4-C12)	5820		ug/L	330	500	10	08/10/05 14:18	CA LUFT	1	5000050
Surrogate: a,a,a-Trifluorotoluene (63-134%)	85 %		46/12	330	300		10/05 14:18	CA LUFT	kc	5080959
- ,			-		-	1 00/.	10/03 14.16	CA LOI I	kc	5080959
Sample ID: NOH0407-03 (W-27-	-MW3 - <b>V</b>	Water)	Sampled:	08/04/05	13:28					
Oxygenates by EPA 8260B										
Tert-Amyl Methyl Ether	<1.00		ug/L	0.300	1.00	1	08/10/05 05:51	SW846 8260B	hp4	5080618
Benzene	0.730		ug/L	0.250	0.500	1	08/10/05 05:51		hp4	5080618
Ethyl tert-Butyl Ether	<1.00		ug/L	0.270	1.00	1	08/10/05 05:51		hp4	5080618
Ethylbenzene	1.06		ug/L	0.190	0.500	1	08/10/05 05:51	SW846 8260B	hp4	5080618
Isopropyl Ether	<1.00		ug/L	0.180	1.00	1	08/10/05 05:51	SW846 8260B	hp4	5080618
Methyl tert-Butyl Ether	140		ug/L	0.230	1.00	1	08/10/05 05:51	SW846 8260B	hp4	5080618
Toluene	< 0.500		ug/L	0.170	0.500	1	08/10/05 05:51	SW846 8260B	hp4	5080618
Tertiary Butyl Alcohol	<10.0		ug/L	4.28	10.0	1	08/10/05 05:51	SW846 8260B	hp4	5080618
Xylenes, total	< 0.500		ug/L	0.330	0.500	1	08/10/05 05:51	SW846 8260B	hp4	5080618
Surrogate: 1,2-Dichloroethane-d4 (73-127%)	122 %		_		_	1 08/1	0/05 05:51	SW846 8260B	hp4	5080618
Surrogate: Dibromofluoromethane (75-137%)			_		_	1 08/1	0/05 05:51	SW846 8260B	hp4	5080618
Surrogate: Toluene-d8 (79-113%)	108 %		-		_	1 08/1	0/05 05:51	SW846 8260B	hp4	5080618
Surrogate: 4-Bromofluorobenzene (79-125%)	108 %		-		-	1 08/1	0/05 05:51	SW846 8260B	hp4	5080618
Extractable Petroleum Hydrocarbons										
Diesel range organics	< 500		ug/L	33.0	500	1	08/10/05 16:02	CA LUFT	bay	5080469
Surrogate: o-Terphenyl (55-150%)	86 %		_		_	1 08/1	0/05 16:02	CA LUFT	bay	5080469
Purgeable Petroleum Hydrocarbons										
GRO (C4-C12)	159		ug/L	33.0	50.0	1	08/17/05 00:00	CA LUFT	;£	5081220
Surrogate: a,a,a-Trifluorotoluene (63-134%)	113 %			33.0	30.0		7/05 00:00	CA LUFT	jf <i>jf</i>	5081220
Sample ID: NOH0407-04 (W-26-	MXX/A X	Matan) 6	lamplad.	00/04/05	12.56	•			J)	
	74T AA -4 - A	vater) s	sampieu:	00/04/03	19:50					
Oxygenates by EPA 8260B			~							
Tert-Amyl Methyl Ether	<1.00		ug/L	0.300	1.00	1	08/10/05 06:20		hp4	5080618
Benzene	0.510		ug/L	0.250	0.500		08/10/05 06:20		hp4	5080618
Ethyl tert-Butyl Ether	<1.00		ug/L	0.270	1.00		08/10/05 06:20		hp4	5080618
Ethylbenzene	<0.500		ug/L	0.190	0.500		08/10/05 06:20		hp4	5080618
Isopropyl Ether	<1.00		ug/L	0.180	1.00		08/10/05 06:20		hp4	5080618
Methyl tert-Butyl Ether	<1.00		ug/L	0.230	1.00		08/10/05 06:20		hp4	5080618
Toluene	< 0.500		ug/L	0.170	0.500		08/10/05 06:20		hp4	5080618
Tertiary Butyl Alcohol	51.4		ug/L	4.28	10.0		08/10/05 06:20		hp4	5080618
Xylenes, total	<0.500		ug/L	0.330	0.500		08/10/05 06:20	SW846 8260B	hp4	5080618
Surrogate: 1,2-Dichloroethane-d4 (73-127%)	123 %		-		-			SW846 8260B	-	5080618
Surrogate: Dibromofluoromethane (75-137%)	114%		-		-	=	· · · · · · · · · · · · · ·	SW846 8260B	-	5080618
Surrogate: A Brownoffwarehavena (70, 1359)	107 %		-		-		<del>-</del>	SW846 8260B	-	5080618
Surrogate: 4-Bromofluorobenzene (79-125%)	110 %		-		-	1 08/1	0/05 06:20	SW846 8260B	hp4	5080618
Extractable Petroleum Hydrocarbons										
Diesel range organics	<500		ug/L	33.0	500	1	08/10/05 16:19	CA LUFT	bay	5080469
Surrogate: o-Terphenyl (55-150%)	97 %		-		-	1 08/1	0/05 16:19	CA LUFT	bay	5080469
									-	





Client ERI Lake Forest (10203)

20372 North Sea Circle

Lake Forest, CA 92630

Attn George Salley

Work Order: NOH0407

Project Name: Exxon 18-MLJ PO:4506125986

Project Number: ERI 3163 13 Received: 08/06/05 08:00

Analyte	Result	Flag	Units	MDL	MRL			Analysis Date/Time	Method	Analyst	Batch
Sample ID: NOH0407-04 (W-26	-MW4 - `	Water)	– – – - cont. Sa	 mpled: 08	 3/04/05 13:	 56					
Purgeable Petroleum Hydrocarbons				•							
GRO (C4-C12)	1950		ug/L	. 33.0	50.0	1	0	0/17/05 00 20	CALUET		
Surrogate: a,a,a-Trifluorotoluene (63-134%)	116%		ug/L	. 33.0	30.0	1	•	8/17/05 00:32		jf	5081220
•			-	•	-	1	08/17/	/05 00:32	CA LUFT	jf	5081220
Sample ID: NOH0407-05 (W-26-	-MW5 - \	Water)	Sampled:	08/04/05	13:51						
Oxygenates by EPA 8260B											
Tert-Amyl Methyl Ether	<1.00		ug/L	0.300	1.00	1	0	8/10/05 06:50	SW846 8260B	h-1	£000616
Benzene	5.14		ug/L	0.250	0.500	1	_	8/10/05 06:50 8/10/05 06:50		hp4	5080618
Ethyl tert-Butyl Ether	<1.00		ug/L	0.270	1.00	1	_	8/10/05 06:50 8/10/05 06:50		hp4	5080618
Ethylbenzene	140		ug/L	0.190	0.500	1		8/10/05 06:50 8/10/05 06:50		hp4	5080618
Isopropyl Ether	<1.00		ug/L	0.180	1.00	1		8/10/05 06:50 8/10/05 06:50		hp4	5080618
Methyl tert-Butyl Ether	4.40		ug/L	0.230	1.00	1		8/10/05 06:50 8/10/05 06:50		hp4	5080618
Toluene	54.9		ug/L	0.170	0.500	1		8/10/05 06:50 8/10/05 06:50		hp4	5080618
Tertiary Butyl Alcohol	216		ug/L	4.28	10.0	1				hp4	5080618
Xylenes, total	229		ug/L	0.330	0.500	1		8/10/05 06:50 8/10/05 06:50		hp4	5080618
Surrogate: 1,2-Dichloroethane-d4 (73-127%)	121 %		-6-2	0.550				8/10/05 06:50		hp4	5080618
Surrogate: Dibromofluoromethane (75-137%)			-			_		05 06:50	SW846 8260B	hp4	5080618
Surrogate: Toluene-d8 (79-113%)	106 %	•	-			-			SW846 8260B	hp4	5080618
Surrogate: 4-Bromofluorobenzene (79-125%)	104 %		-						SW846 8260B	hp4	5080618
	10170		-		-	1	08/10/	05 06:50	SW846 8260B	hp4	5080618
Extractable Petroleum Hydrocarbons											
Diesel range organics	<500		ug/L	33.0	500	1	08	3/10/05 16:36	CA LUFT	bay	5080469
Surrogate: o-Terphenyl (55-150%)	79 %		-			l i	08/10/	05 16:36	CA LUFT	bay	5080469
Purgeable Petroleum Hydrocarbons										-	
GRO (C4-C12)	2000		ug/L	33.0	50.0	1	0.0	1/17/05 01 01	GA T T TOTAL		
Surrogate: a,a,a-Trifluorotoluene (63-134%)	105 %		ug/L	33.0		. 1		8/17/05 01:04	CA LUFT	jf	5081220
			-		-	(	08/1//0	05 01:04	CA LUFT	jf	5081220
Sample ID: NOH0407-06 (W-26-	MW6 - V	Vater) S	Sampled:	08/04/05 1	13:38						
Oxygenates by EPA 8260B											
Tert-Amyl Methyl Ether	<1.00		ug/L	0.300	1.00	1	08	/10/05 17:01	SW846 8260B	<b>h</b> 1	5000610
Benzene	< 0.500		ug/L	0.250	0.500	1		/10/05 17:01		hp4	5080618
Ethyl tert-Butyl Ether	<1.00		ug/L	0.270	1.00	1		/10/05 17:01		hp4	5080774
Ethylbenzene	685		ug/L	3.80	10.0	20		/10/05 17:01		hp4	5080618
Isopropyl Ether	<1.00		ug/L	0.180	1.00	1		/10/05 17:30		hp4	5080774
Methyl tert-Butyl Ether	1.91		ug/L	0.230	1.00					hp4	5080618
Toluene	1.94		ug/L	0.170	0.500	1		/10/05 17:01		hp4	5080618
Tertiary Butyl Alcohol	<10.0		ug/L	4.28	10.0	I		/10/05 17:01		hp4	5080774
Xylenes, total	94.3		ug/L ug/L	0.330	0.500	1		/10/05 17:01		hp4	5080618
Surrogate: 1,2-Dichloroethane-d4 (73-127%)	120 %		ug D	0.550		1		/10/05 17:01		hp4	5080774
Surrogate: 1,2-Dichloroethane-d4 (73-127%)	114%		-		- <i>I</i>				W846 8260B	-	5080774
Surrogate: Dibromofluoromethane (75-137%)	111 %		-		- 1	_			W846 8260B	-	5080774
Surrogate: Dibromofluoromethane (75-137%)	110 %		-		- 1				W846 8260B	-	5080774
Surrogate: Toluene-d8 (79-113%)	103 %		-		- <i>I</i>	_			W846 8260B	-	5080774
Surrogate: Toluene-d8 (79-113%)	105 % 106 %		-		- 1				W846 8260B	_	5080774
Surrogate: 4-Bromofluorobenzene (79-125%)	106 %		-		- I				W846 8260B	-	5080774
Surrogate: 4-Bromofluorobenzene (79-125%)	100 % 109 %		-		- 1				W846 8260B	hp4	080774
-6 1 Di Omojinoi Obelizelle (19-12)70)	107 70		-		- 1	0	8/10/0.	5 17:30 S	W846 8260B	hp4	080774



ANALYTICAL TESTING CORPORATION

Client ERI Lake Forest (10203)

20372 North Sea Circle

Lake Forest, CA 92630 Attn George Salley

Work Order:

NOH0407

Project Name:

Exxon 18-MLJ PO:4506125986

Received:

Project Number: ERI 3163 13 08/06/05 08:00

ANA	$\mathbf{L}\mathbf{Y}$	TIC	$\mathbf{AL}$	REP	ORT
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Analyte	Result	Flag	Units	MDL	MRL		n Analysis Date/Time	Method	Analyst	Batch
Sample ID: NOH0407-06RE1 (V	 V-26-MV	– – – V6 - Wa	 ter) - con	 t. Sampled	: 08/04/05			- <del>-</del>		
Extractable Petroleum Hydrocarbons										
Diesel range organics	197	J	ug/L	33.0	500	1	08/10/05 16:53	3 CALUFT	bay	508046
Surrogate: o-Terphenyl (55-150%)	81 %		_			_	10/05 16:53	CA LUFT	bay	508046
Purgeable Petroleum Hydrocarbons						1 00,	20,00 10.55		ouy	3000403
GRO (C4-C12)	4910		ug/L	33.0	50.0	1	00/15/05 01 05			
Surrogate: a,a,a-Trifluorotoluene (63-134%)	108 %		ug/L	33.0	50.0	1 1 08/.	- 08/17/05 01:37 <i>17/05 01:37</i>	7 CA LUFT CA LUFT	jf <i>.jf</i>	508122 5081220
Sample ID: NOH0407-07 (W-27	MXX/7	Watani	Commissão.	00/04/05 1		1 007.	27700 01.57		IJ	3001220
Oxygenates by EPA 8260B	-1 <b>4T AA \ -</b>	water)	Sampiea:	08/04/05 1	3:18					
Tert-Amyl Methyl Ether	~1.00		M							
Benzene	<1.00		ug/L	0.300	1.00	1	08/10/05 07:19		hp4	5080618
Ethyl tert-Butyl Ether	<0.500		ug/L	0.250	0.500	1	08/10/05 07:19		hp4	5080618
Ethyl terr-Butyl Ether Ethylbenzene	<1.00		ug/L	0.270	1.00	1	08/10/05 07:19		hp4	5080618
Isopropyl Ether	<0.500		ug/L	0.190	0.500	1	08/10/05 07:19		hp4	5080618
= = -	<1.00		ug/L	0.180	1.00	1	08/10/05 07:19		hp4	5080618
Methyl tert-Butyl Ether Toluene	<1.00		ug/L	0.230	1.00	1	08/10/05 07:19		hp4	5080618
	< 0.500		ug/L	0.170	0.500	1	08/10/05 07:19		hp4	5080618
Tertiary Butyl Alcohol	47.2		ug/L	4.28	10.0	1	08/10/05 07:19		hp4	5080618
Xylenes, total Surrogate: 1,2-Dichloroethane-d4 (73-127%)	<0.500		ug/L	0.330	0.500	1	08/10/05 07:19	SW846 8260B	hp4	5080618
Surrogate: Dibromofluoromethane (75-137%)	120 %		-		- i	1 08/1	10/05 07:19	SW846 8260B	hp4	5080618
Surrogate: Toluene-d8 (79-113%)			-		_ <i>i</i>	1 08/1	10/05 07:19	SW846 8260B	hp4	5080618
Surrogate: 4-Bromofluorobenzene (79-125%)	108 %		-		- i	1 08/1	10/05 07:19	SW846 8260B	hp4	5080618
· ,	110 %		-		- <i>1</i>	1 08/1	10/05 07:19	SW846 8260B	hp4	5080618
Extractable Petroleum Hydrocarbons										
Diesel range organics	< 500		ug/L	33.0	500	1	08/10/05 17:10	CA LUFT	bay	5080469
Surrogate: o-Terphenyl (55-150%)	90 %		-	•	- 1	08/1	0/05 17:10	CA LUFT	bay	5080469
Purgeable Petroleum Hydrocarbons										
GRO (C4-C12)	79.0		ug/L	33.0	50.0	1	08/17/05 02:09	CA LUFT	jf	5081220
Surrogate: a,a,a-Trifluorotoluene (63-134%)	106 %		_		- 1		7/05 02:09	CA LUFT	jf jf	5081220
Sample ID: NOH0407-08 (Trip E	Rlanks _ V	Vator) (	Sampladi	09/04/05					<b>3</b> 3	
Oxygenates by EPA 8260B	ланко - у	vatery	ampieu:	00/04/05						
Tert-Amyl Methyl Ether	<1.00		M	0.000						
Benzene	<1.00		ug/L	0.300	1.00		08/10/05 07:48		hp4	5080618
Ethyl tert-Butyl Ether	<0.500		ug/L	0.250	0.500		08/10/05 07:48		hp4	5080618
Ethylbenzene	<1.00		ug/L	0.270	1.00		08/10/05 07:48		hp4	5080618
Isopropyl Ether	<0.500		ug/L	0.190	0.500		08/10/05 07:48		hp4	5080618
Methyl tert-Butyl Ether	<1.00		ug/L	0.180	1.00		08/10/05 07:48		hp4	5080618
Toluene	<1.00		ug/L	0.230	1.00		08/10/05 07:48		hp4	5080618
	<0.500		ug/L	0.170	0.500		08/10/05 07:48		hp4	5080618
Tertiary Butyl Alcohol Xylenes, total	<10.0		ug/L	4.28	10.0		08/10/05 07:48		hp4	5080618
Ayrenes, total Surrogate: 1,2-Dichloroethane-d4 (73-127%)	<0.500		ug/L	0.330	0.500		08/10/05 07:48	SW846 8260B	hp4	5080618
Surrogate: 1,2-Dictioroeinane-a4 (75-127%) Surrogate: Dibromofluoromethane (75-137%)	122 %		-	-	1			SW846 8260B	hp4	5080618
Surrogate: Divromojtuoromethane (73-13/%) Surrogate: Toluene-d8 (79-113%)	112 %		-	-	1			SW846 8260B	hp4	5080618
Surrogate: 101uene-us (79-115%) Surrogate: 4-Bromofluorobenzene (79-125%)	112 %		-	-	1			W846 8260B	hp4	5080618
	104 %		-	-	1	08/10	0/05 07:48 S	W846 8260B	hp4	5080618



2960 Foster Creighton Road Nashville, TN 37204 \* 800-765-0980 \* Fax 615-726-3404

Client ERI Lake Forest (10203)

20372 North Sea Circle

Lake Forest, CA 92630

Attn George Salley Work Order:

NOH0407

Project Name:

Exxon 18-MLJ PO:4506125986

Project Number: ERI 3163 13

Received:

08/06/05 08:00

## ANALYTICAL REPORT

Analyte Sample ID: NOH0407-08 (Trip I	Result Blanks -	Flag Units	MDI  ampled:		Diluti Fact	on Analysis or Date/Time	Method	Analyst	Batch
Purgeable Petroleum Hydrocarbons GRO (C4-C12) Surrogate: a,a,a-Trifluorotoluene (63-134%)	<50.0 112 %	ug/L	33.0	50.0	1 1 0	08/16/05 22:55 8/16/05 22:55	CA LUFT	jf <i>J</i> f	5081220 5081220



2960 Foster Creighton Road Nashville, TN 37204 \* 800-765-0980 \* Fax 615-726-3404

Client ERI Lake Forest (10203)

20372 North Sea Circle

Lake Forest, CA 92630

George Salley Attn

Work Order:

NOH0407

Project Name:

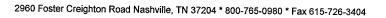
Exxon 18-MLJ PO:4506125986

Project Number: ERI 3163 13 Received:

08/06/05 08:00

## SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extracted Vol	Date	Analyst	Extraction Method
Extractable Petroleum Hydrocarbons							
CA LUFT	5080469	NOH0407-01	1000.00	1.00	08/09/05 14:45	ADG	EPA 3510C
CA LUFT	5080469	NOH0407-02	1000.00	1.00	08/09/05 14:45	ADG	EPA 3510C
CA LUFT	5080469	NOH0407-03	1000.00	1.00	08/09/05 14:45	ADG	EPA 3510C
CA LUFT	5080469	NOH0407-04	1000.00	1.00	08/09/05 14:45	ADG	EPA 3510C
CA LUFT	5080469	NOH0407-05	1000.00	1.00	08/09/05 14:45	ADG	EPA 3510C
CA LUFT	5080469	NOH0407-06	1000.00	1.00	08/09/05 14:45	ADG	EPA 3510C
CA LUFT	5080469	NOH0407-07	1000.00	1.00	08/09/05 14:45	ADG	EPA 3510C





Client ERI Lake Forest (10203) 20372 North Sea Circle

Lake Forest, CA 92630

George Salley Attn

Work Order:

NOH0407

Project Name:

Exxon 18-MLJ PO:4506125986

Received:

Project Number: ERI 3163 13 08/06/05 08:00

PROJECT QUALITY CONTROL DATA Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time	
Oxygenates by EPA 8260B				. – – – –	· <del>-</del>		
5080618-BLK1							
Tert-Amyl Methyl Ether	< 0.300		ug/L	5080618	5080618-BLK1	08/10/05 04:53	
Benzene	< 0.250		ug/L	5080618	5080618-BLK1	08/10/05 04:53	
Ethyl tert-Butyl Ether	< 0.270		ug/L	5080618	5080618-BLK1	08/10/05 04:53	
Ethylbenzene	< 0.190		ug/L	5080618	5080618-BLK1	08/10/05 04:53	
Isopropyl Ether	< 0.180		ug/L	5080618	5080618-BLK1	08/10/05 04:53	
Methyl tert-Butyl Ether	< 0.230		ug/L	5080618	5080618-BLK1	08/10/05 04:53	
Toluene	< 0.170		ug/L	5080618	5080618-BLK1	08/10/05 04:53	
Tertiary Butyl Alcohol	<4.28		ug/L	5080618	5080618-BLK1	08/10/05 04:53	
Xylenes, total	< 0.330		ug/L	5080618	5080618-BLK1	08/10/05 04:53	
Surrogate: 1,2-Dichloroethane-d4	118%		_	5080618	5080618-BLK1	08/10/05 04:53	
Surrogate: Dibromofluoromethane	110%			5080618	5080618-BLK1	08/10/05 04:53	
Surrogate: Toluene-d8	110%			5080618	5080618-BLK1	08/10/05 04:53	
Surrogate: 4-Bromofluorobenzene	107%			5080618	5080618-BLK1	08/10/05 04:53	
5080774-BLK1							
Benzene	< 0.250		ug/L	5080774	5080774-BLK1	08/10/05 16:32	
Ethylbenzene	< 0.190		ug/L	5080774	5080774-BLK1	08/10/05 16:32	
Toluene	< 0.170		ug/L	5080774	5080774-BLK1	08/10/05 16:32	
Xylenes, total	< 0.330		ug/L	5080774	5080774-BLK1	08/10/05 16:32	
Surrogate: 1,2-Dichloroethane-d4	121%			5080774	5080774-BLK1	08/10/05 16:32	
Surrogate: Dibromofluoromethane	112%			5080774	5080774-BLK1	08/10/05 16:32	
Surrogate: Toluene-d8	107%			5080774	5080774-BLK1	08/10/05 16:32	
Surrogate: 4-Bromofluorobenzene	107%			5080774	5080774-BLK1	08/10/05 16:32	
Extractable Petroleum Hydroc	arbons						
5080469-BLK1							
Diesel range organics	<33.0		ug/L	5080469	5080469-BLK1	08/10/05 14:54	
Surrogate: o-Terphenyl	88%			5080469	5080469-BLK1	08/10/05 14:54	
Purgeable Petroleum Hydrocar	bons						
5080535-BLK1							
GRO (C4-C12)	<33.0		ug/L	5080535	5080535-BLK1	08/09/05 15:32	
Surrogate: a,a,a-Trifluorotoluene	100%			5080535	5080535-BLK1	08/09/05 15:32	
5080535-BLK2							
GRO (C4-C12)	<33.0		ug/L	5080535	5080535-BLK2	08/09/05 15:48	
Surrogate: a,a,a-Trifluorotoluene	92%			5080535	5080535-BLK2	08/09/05 15:48	
5080959-BLK1							
GRO (C4-C12)	<33.0		ug/L	5080959	5080959-BLK1	08/10/05 10:33	
Surrogate: a,a,a-Trifluorotoluene	93%			5080959	5080959-BLK1	08/10/05 10:33	



Client ERI Lake Forest (10203)

20372 North Sea Circle

Lake Forest, CA 92630

Attn George Salley Work Order:

NOH0407

Project Name:

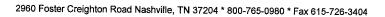
Exxon 18-MLJ PO:4506125986

Project Number: ERI 3163 13 Received:

08/06/05 08:00

#### PROJECT QUALITY CONTROL DATA Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Purgeable Petroleum Hydrocar	bons			· – – – <b>–</b>		
5080959-BLK2						
GRO (C4-C12)	<33.0		ug/L	5080959	5080959-BLK2	08/10/05 10:48
Surrogate: a,a,a-Trifluorotoluene	82%			5080959	5080959-BLK2	08/10/05 10:48
5081220-BLK1						
GRO (C4-C12)	<33.0		ug/L	5081220	5081220-BLK1	08/16/05 19:18
Surrogate: a,a,a-Trifluorotoluene	108%			5081220	5081220-BLK1	08/16/05 19:18





Client ERI Lake Forest (10203)

20372 North Sea Circle

Lake Forest, CA 92630

Attn George Salley

Work Order: NOH0407

Project Name: Exxon 18-MLJ PO:4506125986

Project Number: ERI 3163 13 Received: 08/06/05 08:00

# PROJECT QUALITY CONTROL DATA LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Oxygenates by EPA 8260B	-							
5080618-BS1								
Tert-Amyl Methyl Ether	50.0	54.1		ug/L	108%	68 - 134	5080618	08/10/05 03:26
Benzene	50.0	53.0		ug/L	106%	78 - 123	5080618	08/10/05 03:20
Ethyl tert-Butyl Ether	50.0	54.2		ug/L	108%	67 - 140	5080618	08/10/05 13:08
Ethylbenzene	50.0	58.7		ug/L	117%	80 - 124	5080618	08/10/05 03:20
Isopropyl Ether	50.0	52.0		ug/L	104%	65 - 140	5080618	08/10/05 13:08
Methyl tert-Butyl Ether	50.0	54.4		ug/L	109%	69 - 136	5080618	08/10/05 03:26
Toluene	50.0	53.4		ug/L	107%	77 - 124	5080618	08/10/05 03:28
Tertiary Butyl Alcohol	500	468		ug/L	94%	28 - 182	5080618	08/10/05 03:26
Xylenes, total	150	170		ug/L	113%	81 - 124	5080618	08/10/05 03:20
Surrogate: 1,2-Dichloroethane-d4	50.0	56.9		Ü	114%	73 - 127	5080618	08/10/05 13:08
Surrogate: 1,2-Dichloroethane-d4	50.0	57.3			115%	70 - 130	5080618	08/10/05 03:26
Surrogate: Dibromofluoromethane	50.0	53.6			107%	75 - 137	5080618	08/10/05 13:08
Surrogate: Dibromofluoromethane	50.0	52.9			106%	79 - 122	5080618	08/10/05 03:26
Surrogate: Toluene-d8	50.0	50.7			101%	79 - 113	5080618	08/10/05 13:08
Surrogate: Toluene-d8	50.0	51.7			103%	78 - 121	5080618	08/10/05 03:26
Surrogate: 4-Bromofluorobenzene	50.0	52.7			105%	79 - 125	5080618	08/10/05 13:08
Surrogate: 4-Bromofluorobenzene	50.0	52.2			104%	78 - 126	5080618	08/10/05 03:26
5080774-B\$1								
Benzene	50.0	52.7		ug/L	105%	78 - 123	5080774	08/10/05 15:04
Ethylbenzene	50.0	58.9		ug/L	118%	80 - 124	5080774	08/10/05 15:04
Toluene	50.0	54.6		ug/L	109%	77 - 124	5080774	08/10/05 15:04
Xylenes, total	150	172		ug/L	115%	81 - 124	5080774	08/10/05 15:04
Surrogate: 1,2-Dichloroethane-d4	50.0	56.8		•	114%	73 - 127	5080774	08/10/05 15:04
Surrogate: Dibromofluoromethane	50.0	53.5			107%	75 - 137	5080774	08/10/05 15:04
Surrogate: Toluene-d8	50.0	52.3			105%	79 - 113	5080774	08/10/05 15:04
Surrogate: 4-Bromofluorobenzene	50.0	52.2			104%	79 - 125	5080774	08/10/05 15:04
Extractable Petroleum Hydrocarb	ons							
5080469-BS1								
Diesel range organics	1000	862		ug/L	86%	43 - 119	5080469	08/10/05 15:11
Surrogate: o-Terphenyl	20.0	16.3		3	82%	55 - 150	5080469	08/10/05 15:11
Purgeable Petroleum Hydrocarbo	ns							
5080535-BS1								
GRO (C4-C12)	1000	715		ug/L	72%	64 - 130	5080535	08/09/05 21:51
Surrogate: a,a,a-Trifluorotoluene	30.0	28.4		492	95%	63 - 134	5080535	08/09/05 21:51
5080535-BS2			•					
GRO (C4-C12)	1000	641		ug/L	64%	64 - 130	5080535	08/09/05 22:06
Surrogate: a,a,a-Trifluorotoluene	30.0	24.9		-	83%	63 - 134	5080535	08/09/05 22:06



ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Road Nashville, TN 37204 \* 800-765-0980 \* Fax 615-726-3404

Client ERI Lake Forest (10203)

20372 North Sea Circle

Lake Forest, CA 92630

Attn George Salley Work Order:

NOH0407

Project Name:

Exxon 18-MLJ PO:4506125986

Project Number: ERI 3163 13

Received:

08/06/05 08:00

## PROJECT QUALITY CONTROL DATA LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Purgeable Petroleum Hydrocarl 5080959-B\$1 GRO (C4-C12) Surrogate: a,a,a-Trifluorotoluene	1000 30.0	1030 29.6			103% 99%	64 - 130 63 - 134	5080959 5080959	08/10/05 16:10 08/10/05 16:10
<b>5081220-BS1</b> GRO (C4-C12) Surrogate: a,a,a-Trifluorotoluene	1000 30.0	1030 33.5		ug/L	103% 112%	64 - 130 63 - 134	5081220 5081220	08/17/05 10:27 08/17/05 10:27



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20372 North Sea Circle

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George Salley

Attn

Work Order: NOH0407

Project Name: Exxon 18-MLJ PO:4506125986

Project Number: ERI 3163 13

Received: 08/06/05 08:00

## PROJECT QUALITY CONTROL DATA **LCS Dup**

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	) Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by	y EPA Me	thod 8260]	В									
5080774-BSD1												
Benzene		51.3		ug/L	50.0	103%	78 - 123	3	27	5080774		08/11/05 02:13
Ethylbenzene		56.7		ug/L	50.0	113%	80 - 124	4	28	5080774		08/11/05 02:13
Toluene		51.9		ug/L	50.0	104%	77 - 124	5	34	5080774		08/11/05 02:13
Xylenes, total		166		ug/L	150	111%	81 - 124	4	25	5080774		08/11/05 02:13
Surrogate: 1,2-Dichloroethane-d4		59.9		ug/L	50.0	120%	73 - 127			5080774		08/11/05 02:13
Surrogate: Dibromofluoromethane		55.1		ug/L	50.0	110%	75 - 137			5080774		08/11/05 02:13
Surrogate: Toluene-d8		52.6		ug/L	50.0	105%	79 - 113			5080774		08/11/05 02:13
Surrogate: 4-Bromofluorobenzene		51.7		ug/L	50.0	103%	79 - 125			5080774		08/11/05 02:13
Purgeable Petroleum Hydrocar	bons											
5080959-BSD1												
GRO (C4-C12)		958		ug/L	1000	96%	64 - 130	7	27	5080959		08/10/05 16:25
Surrogate: a,a,a-Trifluorotoluene		26.8		ug/L	30.0	89%	63 - 134			5080959		08/10/05 16:25



Client ERI Lake Forest (10203)

20372 North Sea Circle

Lake Forest, CA 92630

Attn George Salley

Surrogate: a,a,a-Trifluorotoluene

Work Order:

NOH0407

Project Name:

30.0

91%

Exxon 18-MLJ PO:4506125986

63 - 134 5080535 NOH0407-01 08/09/05 21:20

Received:

Project Number: ERI 3163 13 08/06/05 08:00

PROJECT QUALITY CONTROL DATA **Matrix Spike** 

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Purgeable Petroleum Hydrocarb	ons							<del>-</del> -		, -
5080535-MS1										
GRO (C4-C12)	308	1050		ug/L	1000	74%	43 - 150	5080535	NOH0407-01	08/09/05 21:20

ug/L

27.3



Client ERI Lake Forest (10203)

20372 North Sea Circle

Lake Forest, CA 92630

George Salley

Attn

Work Order:

NOH0407

Project Name:

Exxon 18-MLJ PO:4506125986

Project Number: ERI 3163 13

Received:

08/06/05 08:00

## PROJECT QUALITY CONTROL DATA

p

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Purgeable Petroleum Hydrocart 5080535-MSD1	ons						- <del></del>					
GRO (C4-C12) Surrogate: a,a,a-Trifluorotoluene	308	913 22.4		ug/L ug/L	1000 30.0		43 - 150 63 - 134	14	27	5080535 5080535	NOH0407-01 NOH0407-01	08/09/05 21:36 08/09/05 21:36



ANALYTICAL TESTING CORPORATION 2960 Foster Creighton Road Nashville, TN 37204 \* 800-765-0980 \* Fax 615-726-3404

Client ERI Lake Forest (10203)

20372 North Sea Circle

Lake Forest, CA 92630

Attn George Salley Work Order:

NOH0407

Project Name:

Exxon 18-MLJ PO:4506125986

Project Number: ERI 3163 13

Received:

08/06/05 08:00

#### **CERTIFICATION SUMMARY**

## TestAmerica Analytical - Nashville

Method	Matrix	AIHA	Nelac	California	•
CA LUFT SW846 8260B	Water Water	N/A	X X	X X	



Client ERI Lake Forest (10203)

20372 North Sea Circle

Lake Forest, CA 92630

Attn George Salley

Work Order: NOH0407

Project Name: Exxon 18-MLJ PO:4506125986

Project Number: ERI 3163 13

Received: 08/06/05 08:00

### **NELAC CERTIFICATION SUMMARY**

TestAmerica Analytical - Nashville does not hold NELAC certifications for the following analytes included in this report

Method

**Matrix** 

**Analyte** 



ANALYTICAL TESTING CORPORATION 2960 Foster Creighton Road Nashville, TN 37204 \* 800-765-0980 \* Fax 615-726-3404

Client ERI Lake Forest (10203)

20372 North Sea Circle

Lake Forest, CA 92630

George Salley Attn

Work Order:

NOH0407

Project Name:

Exxon 18-MLJ PO:4506125986 Project Number: ERI 3163 13

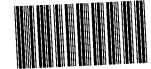
Received:

08/06/05 08:00

### DATA QUALIFIERS AND DEFINITIONS

Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection J Limit (MDL). The user of this data should be aware that this data is of limited reliability.





## **COOLER RECEIPT FORM**

**BC#**<sub>VOH0407</sub>

C	lient Name :ECT	_
C	ooler Received/Opened On: 8/6/05 Accessioned By: Mike Mcbrid Log-in Personnel Si	<del>_</del>
		9
1.	Temperature of Cooler when triaged: Degrees Celsius	
2.	Were custody seals on outside of cooler?	YES NONA
	a. If yes, how many and where: (1) Fron	
3.	Were custody seals on containers?	NOYESNA
4.	Were the seals intact, signed, and dated correctly?	YESNONA
5.	Were custody papers inside cooler?	(ESNONA
6.	Were custody papers properly filled out (ink, signed, etc)?	ŒSNONA
7.	Did you sign the custody papers in the appropriate place?	ŒSNONA
8.	What kind of packing material used? Bubblewrap Peanuts Vermiculite	Foam Insert
	Ziplock baggies Paper Other	None
9.	Cooling process: (Ce   Ice-pack   Ice (direct contact)   Dry ice	Other None
10.	Did all containers arrive in good condition (unbroken)?	
	Were all container labels complete (#, date, signed, pres., etc)?	
	Did all container labels and tags agree with custody papers?	•
	Were correct containers used for the analysis requested?	7
	a. Were VOA vials received?	
15	b. Was there any observable head space present in any VOA vial?	
	Was sufficient amount of sample sent in each container?	
10.	Were correct preservatives used?	ZES.).NONA
	If not, record standard ID of preservative used here	_
17.	Was residual chlorine present?	NO.).YESNA
18.	Indicate the Airbill Tracking Number (last 4 digits for Fedex only) and Name of Courier	below:
	9341	
	Fed-E UPS Velocity DHL Route Off-street	Misc.
19.	If a Non-Conformance exists, see attached or comments below:	



Nashville Division 2960 Foster Creighton Nashville, TN 37204

Phone: 615-72 177
Toll Free: 800-76 80
Fax: 615-726-3404

**NOH0407** 08/17/05 17:00

ExonMobil.

Consultant Name	e: <u>Envir</u>	onmen	tal R	esolu	utions	, Inc	) <u>.                                    </u>											1	ГА Ассо	unt#	t:					1	020	13				14	g/ 1	
Address	s: <u>2037</u> 2	2 North	Sea	Cirlo	cle												_				:				Ma	arla			احاء			(	7_/	
City/State/Zi <sub>l</sub>	: <u>Lake</u>	Forest,	, CA	926	30												_				:				GE						—			
ExxonMobil Territory Mg	r: <u>Marla</u>	a Guer	nsler	·													_				- :					1506				<del>'</del> -			·	
Consultant Project Mg	r: <u>GEO</u>	RGE S	ALLE	Ϋ́													_		Facili				EDI	2162							401	41 1		
Consultant Telephone Numbe	r: <u>949-4</u>	57-895	50		_	, Fa	ax N	io.:	94	9-4	57-	895	 56				-		Site Ad	_				3163								<i>I</i> LJ		_
Sampler Name: (Prin	t) <u> </u>	du	010	<b>7</b>		t VL					<del>v :</del>						-							5005							CH			_
Sampler Signature			2		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1												_ 		ity, Stat					L	LON					<u>A</u>			<del></del>	_
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Sample ID or Field ID	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Methanol	Sodium Bisulfate	HCI (Blue Label)	NaOH ( Orange Label)			one (Black Label)	Groundwater	vvastewater Drinking talet	ludge	Soil	Other (specify):	8015M DIESEL- CAL LUFT	TPH/GAS-CAL LUFT	FULL SCAN 8260B	METHANOL -CAL LUFT	ETHANOL (8260)	*8260B/BTEX +OXYGENATES / GC/MS	<b>TEX/MTBE BY 802</b>	8010	REDOX POTENTIAL	NITRATE/SULFATE	METHANE(8015)	RUSH TAT (Pre-Schedule	5 Day TAT request	(yes of file)	Due Date of Report	
VW-27-MW/	4/4/05	1200		+		-		S	$\dashv$	7	=	H	2	9 :	1	3 8	Š	9	83	Ë	155		Ш	Ş Ç	a a	8	RE	Ż	M	2	민준	5	Doğ	
<i>y</i> 2.	1			X	-	-	Н	H	쒸	+	+	Н	$\sqcup$	<u> </u>	-	╀	Н		X	X		┷		Х		Ш				Ц	x	No	H0407	-]
W-26- UWZ	+-	1398	T	-			Н	-	H	+	$\downarrow$	$\sqcup$		$\parallel$	+	$\bot$	Ш		X	X		$oldsymbol{\perp}$		X						Ш	$\prod$		<u>.</u>	
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<b>CLIENT NA</b>	ME: EXXON	MOBIL 18M	<u>LJ</u>	ERI JOH	3 # 3163 13		0.163 FO	R A 2" W	ELL
SITE LOCA	TION: 5005	N. LONG BEA	ACH BLVD		SIS: TPHg/8		0.652 FO	R A 4" W	ELL
		DATE: 8/04/		TPHd				R A 6" W	
			DEPTH TO		CASE	PRG	1.107 10	KAU V	
WELL#	TIME	WATER	WELL	DIA	VOL(gal)	VOL	COND.	TEMP	Hq
MW7	11:45 AM	27.79	48.33	4	13.41	39	COMD.	1 151/11	hir
<u> </u>	11:58 AM		10.00	•	10.71	1	2.52	75.4	7.57
· <del>······</del> ·	12:04 PM				<del>                                     </del>	13	2.51	75.1	7.51
	12:11 PM				<del>                                     </del>	26	2.45	74.4	7.47
	12:18 PM					39	2.47	74.6	7.44
sw	1:18 PM	28.69					2.77	74.0	7.777
COMMENT	water Clea		<b>ДЕРТН ТО</b>	CASE	CASE	PRG			
WELL#	TIME	WATER	WELL	DIA	VOL	VOL	COND.	ТЕМР	pН
MW1	11:47 AM	27.92	49.55	4	14.12	42	COND.	I EMILI	pri
		27.02	70.00		17.12		2.41	74.5	7.87
	12:00 PM		! !			1			
	12:00 PM			_		1 14			
	12:07 PM					14	2.54	74.7	7.88
	12:07 PM 12:15 PM					14 28	2.54 2.52	74.7 74.9	7.88 7.83
SW COMMENTS	12:07 PM 12:15 PM 12:23 PM 1:23 PM	28.88				14	2.54	74.7	7.88 7.83
COMMENTS	12:07 PM 12:15 PM 12:23 PM 1:23 PM Water Clear	<b>ДЕРТН ТО</b>	<b>ДЕРТН ТО</b>	CASE	CASE	14 28 42 PRG	2.54 2.52 2.53	74.7 74.9 74.6	7.88 7.83
COMMENTS WELL#	12:07 PM 12:15 PM 12:23 PM 1:23 PM Water Clean	DEPTH TO WATER	WELL	DIA	VOL	14 28 42 PRG VOL	2.54 2.52	74.7 74.9	7.88 7.83 7.82
COMMENTS	12:07 PM 12:15 PM 12:23 PM 1:23 PM Water Clear TIME 11:49 AM	<b>ДЕРТН ТО</b>				14 28 42 PRG VOL 42	2.54 2.52 2.53 COND.	74.7 74.9 74.6 TEMP	7.88 7.83 7.82
COMMENTS WELL#	12:07 PM 12:15 PM 12:23 PM 1:23 PM Water Clean TIME 11:49 AM 12:23 PM	DEPTH TO WATER	WELL	DIA	VOL	14 28 42 PRG VOL 42	2.54 2.52 2.53 COND.	74.7 74.9 74.6 TEMP	7.88 7.83 7.82 pH
COMMENTS WELL#	12:07 PM 12:15 PM 12:23 PM 1:23 PM Water Clear TIME 11:49 AM 12:23 PM 12:30 PM	DEPTH TO WATER	WELL	DIA	VOL	14 28 42 PRG VOL 42 1	2.54 2.52 2.53 COND.	74.7 74.9 74.6 TEMP 73.9 74.6	7.88 7.83 7.82 <b>pH</b> 7.75 7.71
COMMENTS WELL#	12:07 PM 12:15 PM 12:23 PM 1:23 PM Water Clear TIME 11:49 AM 12:23 PM 12:30 PM 12:38 PM	DEPTH TO WATER	WELL	DIA	VOL	14 28 42 PRG VOL 42 1 14 28	2.54 2.52 2.53 COND. 3.13 3.11 3.07	74.7 74.9 74.6 TEMP 73.9 74.6 74.4	7.88 7.83 7.82 <b>pH</b> 7.75 7.71 7.66
COMMENTS  WELL #  MW3	12:07 PM 12:15 PM 12:23 PM 1:23 PM Water Clear TIME 11:49 AM 12:23 PM 12:30 PM 12:38 PM 12:46 PM	DEPTH TO WATER 27.61	WELL	DIA	VOL	14 28 42 PRG VOL 42 1	2.54 2.52 2.53 COND.	74.7 74.9 74.6 TEMP 73.9 74.6	7.88 7.83 7.82 <b>pH</b> 7.75 7.71
COMMENTS WELL#	12:07 PM 12:15 PM 12:23 PM 1:23 PM Water Clear TIME 11:49 AM 12:23 PM 12:30 PM 12:38 PM 12:46 PM 1:28 PM	DEPTH TO WATER 27.61	WELL	DIA	VOL	14 28 42 PRG VOL 42 1 14 28	2.54 2.52 2.53 COND. 3.13 3.11 3.07	74.7 74.9 74.6 TEMP 73.9 74.6 74.4	7.88 7.83 7.82 <b>pH</b> 7.75 7.71 7.66
WELL # MW3	12:07 PM 12:15 PM 12:23 PM 1:23 PM Water Clear TIME 11:49 AM 12:23 PM 12:30 PM 12:38 PM 12:46 PM 1:28 PM	DEPTH TO WATER 27.61  28.51	WELL 49.62	DIA 4	VOL 14.3671	14 28 42 PRG VOL 42 1 14 28 42	2.54 2.52 2.53 COND. 3.13 3.11 3.07	74.7 74.9 74.6 TEMP 73.9 74.6 74.4	7.88 7.83 7.82 <b>pH</b> 7.75 7.71 7.66
WELL # MW3 SW COMMENTS	12:07 PM 12:15 PM 12:23 PM 1:23 PM Water Clear TIME 11:49 AM 12:23 PM 12:30 PM 12:38 PM 12:46 PM 1:28 PM	DEPTH TO WATER 27.61  28.51 dy	WELL 49.62	DIA 4	VOL 14.3671	14 28 42 PRG VOL 42 1 14 28 42	2.54 2.52 2.53 COND. 3.13 3.11 3.07 3.05	74.7 74.9 74.6 TEMP 73.9 74.6 74.4 74.2	7.88 7.83 7.82 <b>pH</b> 7.75 7.71 7.66 7.65
WELL # WELL # WW3  SW COMMENTS  WELL #	12:07 PM 12:15 PM 12:23 PM 1:23 PM Water Clear TIME 11:49 AM 12:23 PM 12:30 PM 12:38 PM 12:46 PM 1:28 PM	DEPTH TO WATER 27.61  28.51	WELL 49.62  DEPTH TO WELL	DIA 4	VOL 14.3671	14 28 42 PRG VOL 42 1 14 28 42 PRG VOL	2.54 2.52 2.53 COND. 3.13 3.11 3.07	74.7 74.9 74.6 TEMP 73.9 74.6 74.4	7.88 7.83 7.82 <b>pH</b> 7.75 7.71 7.66
WELL # WELL # WW3  SW COMMENTS  WELL #	12:07 PM 12:15 PM 12:23 PM 1:23 PM Water Clear TIME 11:49 AM 12:23 PM 12:30 PM 12:36 PM 12:46 PM 1:28 PM Water Cloud	DEPTH TO WATER 27.61  28.51 dy  DEPTH TO WATER	WELL 49.62	DIA 4 CASE DIA	VOL 14.3671	PRG VOL 42 1 14 28 42 PRG VOL 42	2.54 2.52 2.53 COND. 3.13 3.11 3.07 3.05	74.7 74.9 74.6  TEMP 73.9 74.6 74.4 74.2	7.88 7.83 7.82  pH 7.75 7.71 7.66 7.65
WELL # WELL # WW3  SW COMMENTS  WELL #	12:07 PM 12:15 PM 12:23 PM 1:23 PM Water Clear TIME 11:49 AM 12:23 PM 12:30 PM 12:38 PM 12:46 PM 1:28 PM Water Cloud TIME 1:13 PM 1:20 PM	DEPTH TO WATER 27.61  28.51 dy  DEPTH TO WATER	WELL 49.62  DEPTH TO WELL	DIA 4 CASE DIA	VOL 14.3671	PRG VOL 42 1 14 28 42 PRG VOL 42 1	2.54 2.52 2.53 COND. 3.13 3.11 3.07 3.05	74.7 74.9 74.6  TEMP 73.9 74.6 74.4 74.2	7.88 7.83 7.82  pH 7.75 7.71 7.66 7.65
WELL # WELL # WW3  SW COMMENTS  WELL #	12:07 PM 12:15 PM 12:23 PM 1:23 PM Water Clear  TIME 11:49 AM 12:23 PM 12:30 PM 12:38 PM 12:46 PM 1:28 PM Water Cloud TIME 1:13 PM 1:20 PM 1:27 PM	DEPTH TO WATER 27.61  28.51 dy  DEPTH TO WATER	WELL 49.62  DEPTH TO WELL	DIA 4 CASE DIA	VOL 14.3671	PRG VOL 42 1 14 28 42 PRG VOL 42 1 14	2.54 2.52 2.53 COND. 3.13 3.11 3.07 3.05	74.7 74.9 74.6  TEMP 73.9 74.6 74.4 74.2  TEMP 74.6 74.1	7.88 7.83 7.82  pH 7.75 7.71 7.66 7.65
WELL # MW3 SW COMMENTS	12:07 PM 12:15 PM 12:23 PM 1:23 PM Water Clear TIME 11:49 AM 12:23 PM 12:30 PM 12:38 PM 12:46 PM 1:28 PM Water Cloud TIME 1:13 PM 1:20 PM	DEPTH TO WATER 27.61  28.51 dy  DEPTH TO WATER	WELL 49.62  DEPTH TO WELL	DIA 4 CASE DIA	VOL 14.3671	PRG VOL 42 1 14 28 42 PRG VOL 42 1	2.54 2.52 2.53 COND. 3.13 3.11 3.07 3.05	74.7 74.9 74.6  TEMP 73.9 74.6 74.4 74.2	7.88 7.83 7.82  pH 7.75 7.71 7.66 7.65

SITE LOCAT	<u>IE: EXXON</u>	MOBIL 18M	<u>LJ</u>	ERI JOB	# 3163 13		0.163 FO	R A 2" W	ELL
					SIS: TPHg/	•		R A 4" W	
		DATE: 8/04/		TPHd				R A 6" W	
	v		<b>ДЕРТН ТО</b>	1	CASE	PRG			
WELL#	TIME	WATER	WELL	DIA	VOL	VOL	COND.	ТЕМР	711
MW4	1:15 PM	26.21	47.65	4	14.00	42	COND.	1 151411	pН
	1:25 PM			<u> </u>	1-1.00	1	2.42	74.8	8.1
	1:32 PM					14	2.40	74.4	8.10
	1:39 PM					28	2.37	74.2	8.06
	1:46 PM					42	2.35	74.0	8.04
sw	1:56 PM	27.96				<u> </u>	2.00	74.0	0.0
COMMENTS		•	<b>DEPTH TO</b>	CASE	CASE	PRG	т		
WELL#	TIME	WATER	WELL	DIA	VOL	VOL	COND.	ТЕМР	рH
MW6	11:51 AM	26.44	48.38	4	14.32	42	COND.	I LUIVAL	prr
	12:28 PM		10.00		1-7.02	1	2.22	75.9	7.36
	12:35 PM					14	2.29	75.5	7.38
	12:43 PM					28	2.26	74.9	7.33
	12:51 PM					42	2.23	74.6	7.31
sw	1:38 PM	27.23				···			
WEI I #	TOTACO		DEPTH TO	CASE	CASE	PRG	60.7		
WELL# MW2	11:53 AM	WATER 26.62	WELL	DIA	VOL	VOL	COND.	TEMP	<u>pH</u>
	12:51 PM	20.02	50.76	4	15.76	48	0.50	74.4	7.45
	12.51 FM					1	2.59	74.1	7.17
	1:08 PM					16	2.52	74.4	7.11
					ŀ	32	2.50	74.0	
				1		40	1 040 1	70.7	
	1:17 PM	27.60				48	2.48	73.7	7.07 7.09
SW	1:48 PM	_	·			48	2.48	73.7	
SW	1:48 PM			CASE	CASE	48 PRG	2.48	73.7	
SW	1:48 PM		DEPTH TO	CASE DIA	CASE VOL		2.48 COND.	73.7 TEMP	
SW COMMENTS	1:48 PM Water Clear	<b>DEPTH TO</b>				PRG			7.09
SW COMMENTS	1:48 PM Water Clear	<b>DEPTH TO</b>		DIA	VOL	PRG			7.09

#### WELL SAMPLING AND SURVEYING

- Open well heads. This may require a socket or a special Allen wrench.
- 2) If the wells are not surveyed by a licensed land surveyor, then survey the wells if this hasn't been done before as follows:
  - a) Select a permanent benchmark (e.g. curb at corner of site, property line). Record on "SURVEYGW" form.

b) Measure and record rectangular coordinates from benchmark to each well.

c) Set up tripod and transit where it can see all wells and the benchmark = Station "A". If you can't see all wells, two transit locations must be used. At least one well surveyed from Station "A" must be resurveyed from Station "B". Preferably, two or more wells are resurveyed.

d) Carefully level the tripod using the bubble indicator.

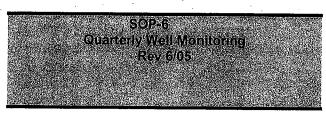
- e) Place stadia rod on benchmark and record height from crosshair to reference, (Do).
- f) Place stadia rod on each well (at the notch) and record ht. from well to crosshair, (Dw).
- g) Calculate casing elevation as shown on data sheet SURVEYGW.

To check the accuracy in leveling the transit, set the transit in second spot and repeat steps 2c through 2g. Recalculation of casing elevations should agree within 0.01 ft. or a third placement of the tripod will be required.

- 3) Set up a decon station. This consists of four (4) buckets. Fill the first with deionized water and one (1) teaspoon (approximately one cap full) of Liquinox soap. Fill the next three (3) buckets with deionized water. To decon a probe or water level indicator, place the element and the tape in the buckets in series, finishing with a good rise. To decon a pump, place the pump, hose and wire leads into the buckets in series, and circulate water through the pump in each bucket. Move the equipment from the dirtiest to cleanest bucket, rinsing thoroughly in each bucket.
- Decon the interface probe or water level indicator before inserting into each well. Review the historical groundwater concentrations and sample from cleanest well to hottest well, deconing between each well. Lower probe/indicator until it beeps raise and lower and mark the level on the tape with your thumb. Estimate level to the nearest 0.01 ft. Note the depth to free product if present as indicated by the interface probe and the depth to water on your field notes and log. Note any odor when the probe is withdrawn from the well. Look for the notch or ink mark on the top of the well and measure all levels from that. Notch should be on the highest side of the well pipe. If no side is high, notch should be on the north side. Measure from the casing adjacent to the notch not from the bottom of the notch. If there is no notch make one. For sites that have free product, or historically have had free product, use a bailer to remove a sample of the top of the water column and measure the product in the bailer or look for a sheen. Take a picture of any bailers with product after labeling the bailer with the well number.
- 5) If there is free product, do not purge or sample. The presence of liquid phase hydrocarbons means the concentration in the water will be high anyway and the pump will be difficult to get clean enough to avoid contaminating other wells.
- 6) <u>Developing</u>: If the well has not been developed (it is new), surge the well by moving bailer up and down vigorously in the well for about 5 minutes. This will wash silt from the sand pack into the well where it can be removed.
- Pull out as much silt as possible by running the bailer all the way to the bottom and withdrawing. Continue bailing until water is fairly clear or until local regulatory specifications are met. Removal of silt with the bailer will extend the pump life. Contact the Project Manager if water does not clear up by 10 casing volumes.

- 8) Decon pump by washing in TSP/water the rinsing with tap water and rinsing again with deionized water. Then pump clean water through the pump to push out any dirty water.
- 9) Purging: Place pump in well about 2 to 5 feet off bottom. Withdraw at least 3 casing volumes from the well, or until temperature, pH and conductivity stabilize (see local regulations). Be careful not to let the pump run dry. If an electric purging pump is used, such as a Grundfos pump, check the water level in the well with the water level indicator and slow pump down when water level is within 2 ft of the pump head. While purging, collect a water sample as often as possible and check for pH, conductivity, and temperature. Stable pH and conductivity would indicate the well has been filled with representative groundwater and purging is complete. If well recharges slowly, remove 1.5 casing volumes. Estimate flow rates by recording the time it takes to fill a 5-gallon bucket (1/2 of a 55-gallon barrel, etc.)
- 10) Decon pump thoroughly between each well by repeating step 7.
- Label bottles with a "Sharpie Pen" when they are dry. Label as W-xx-MWy, where xx is water depth below surface in feet and y is well number (refer to SOP-1).
- After the well has been developed, sample the water using a disposable bailer and surgical gloves to prevent oil from your hands from contaminating the sample. Be sure to leave no headspace or bubbles in any water sample to be tested for volatiles. Wells should be sampled within (24) hours of purging and the well should have recovered to within 80% of its volume before purging. (Slow recharge wells need to be addressed with the Project Manager and may have to be purged slowly). Gasoline contaminated water requires at least three (3) 40 ml VOA's from each well. Preserve samples by acidifying to pH <2 (usually with two drops of HCl). Water suspected of contamination with oil or diesel requires 2 1-liter samples in amber bottles. Samples contaminated with oil will require 10 drops of H<sub>2</sub>SO<sub>4</sub> for preservation. Samples for organic lead require two (2) 1-liter amber bottles.
- Place like vials in a baggie and label the baggie. Put vials and baggie in an ice chest filled with ice and document samples and analyses required on a chain of custody. Take samples to the laboratory the same day samples are collected if possible, at least within 24 hours.
- 14) Clean wellhead gaskets (seals), put locking caps on the wells and replace the covers. Cover and label the drums (if any) of purge and decon water.

<u>Analysis</u> <u>Bottles</u>	<u>Preservative</u>	
8015 mod gasoline/8020(602) 8015 mod diesel/8020(602) 418.1 (TRPH) Organic Lead HOC - 8010 (601)	min. of 3 x 40 ml VOA 2 1-liter & 3 x 40 ml VOA 2 1-liter amber 2 1-liter amber min. of 3 x 40 ml VOA	2 drops HCl to pH <2 2 drops HCl to pH <2 (applied to VOA's) 10 drops H <sub>2</sub> SO <sub>4</sub> to pH <2 no preservative suggested no preservative suggested
Items Needed: Water Level Indicator Disposable Bailers Generator Grundfos Pump and Reel	Distilled Water 4 Buckets Bottle Brush TSP Detergent	Items Needed for Surveying: Topcon AT-F7 Transit Tripod Stadia Rod
Grundfos Pump Control Box Hydac Cond/Temp/pH Meter Liter Bottles VOAs	Stainless Steel Cable or Poly Cooler with Ice Socket set and Allen Wrench Plastic sheeting	



#### QUARTERLY WELL MONITORING

- 1) Give the site manager advance notification of field activities. Arrange for a sufficient number of drums. Obtain a site plan with the location and ID's of the wells to be monitored and a copy of the table from the last quarterly report with the previous groundwater data.
- Open well heads. This may require a socket or a special allen wrench.
- 3) Set up decon station per SOP-5. Measure groundwater depths with water level indicator as per SOP-5 before any other action is taken. If the depth to the bottom of the monitoring well is unknown, reel out the water level indicator until you feel the probe contact the bottom. You may have to raise and lower the probe several times to "feel" contact with the bottom. The probe is not very heavy, and the bottom of the well may have a cushioning layer of silt. Record the depth of the well once you feel confident the probe is at the bottom. Note odors from well.
- Calculate the linear footage of water in each well, by subtracting the depth to water from the total well depth. To obtain the casing volume in gallons, multiply the linear footage by a constant for the given well casing diameter. Typically, three casing volumes are purged from each well prior to sampling.

  Always Round up if 3.4 gallons, then purge 4 gallons if 12.1 gallons, then purge 13 gallons.

Casing diameter	Gallons per linear foot		
2"	0.17		
- <b>4"</b>	0.66		
6"	1.50		
.8"	2.60		
,	•		

- After measuring all water levels, begin purging the wells in order of the cleanest to the most contaminated based on last quarter's data. Well purging procedures are outlined in SOP-5. While wells containing free floating product may not be sampled, the project manager may want the free product removed manually by bailer. Check with the project manager before bailing LPH. You may find that for shallow wells, it may be quicker to bail manually rather than set up the pump. Place purge and decon water in a 55-gallon drum or treat on site. Do not mix purge water from different wells in one drum. Record all purge data on Groundwater Sampling Field Logs. Record "LPH" and the thickness in feet and inches (to nearest 1/16 of an inch) in the comments section if a measurable level of LPH present. If non-measurable amount present then record "Sheen" in the comments section.
- When the well has recovered at least 80% of its' original water level, collect samples using a clean, new disposable bailer. Use a new disposable bailer for each well. Make sure the rope or line is tied securely on the bailer, you don't want to go fishing. Sample in order of the cleanest to the most contaminated. If required, collect field (equipment) blanks.
- Trip blanks are a QA/QC procedure that must be collected at every site. Obtain a trip blank from the laboratory. They will make them up for you. The trip blank to taken unopened to the site and is kept with the other samples in the cooler unopened during the day's sampling. Label the bottle as an arbitrary monitoring well. For example: if there are 5 monitoring wells to be sampled at the site, the trip blank should be labeled as if it were a sample from MW6. The trip blank is never opened and it is used to determine if any contaminants are introduced by the laboratory or during transportation of the samples.
- Field (equipment) blanks are a QA/QC procedure to be collected at the project manager's discretion (or always for LACDPW sites). To collect a field blank decon a bailer thoroughly; pour distilled water into the bailer; pour the distilled water from the bailer into appropriate sample bottle(s) for the analysis

to be performed, allow for no headspace; label the bottle as an arbitrary monitoring well. For example: if there are 5 monitoring wells to be sampled at the site plus a trip blank, and a field blank is to collected, the field blank should be labeled as if it were a sample from MW7 (the trip blank is MW6). If a disposable bailer is used for sampling, use a new disposable bailer to collect the field blank.

- 9) Label sample containers when they are dry (refer to SOP-1). Place vials from each well in a separate plastic zip lock bag. Put bag in an ice chest and document samples and analyses required on a chain of custody (see attached examples).
- Replace the locking caps, and the covers. Cover and label the drums of waste water. Place the drums on site in a location selected by the site manager. Usually, this will be near a dumpster or in the back, away from public view. Labels should face outward.
- 11) Decon all equipment per SOP-5 before leaving the site.

In general, groundwater sampling will be performed in accordance with LUFT guidelines. Several local agencies require that groundwater sampling occur under slightly different guidelines. Check with the project manager to find out which sites require special groundwater sampling procedures. Typically, the following apply:

#### Orange County Health Care Agency Requirements

No special requirements. Water sampling will be performed as per the State Water Resources Board's LUFT manual.

### **LARWQCB Groundwater Requirements**

- Purge a minimum of three well volumes if recovery is fast, or one borehole volume if recovery is slow (water does not recover to 80% of original level within two hours).
- The last three readings must be within 10% for conductivity, temperature, and pH to show stabilization. This means that all three consecutive readings must be within these limits the first with the middle, and the first with the last, and the middle with the last. For instance, pH readings of 6.92, 6.95, and 7.00 would be sufficient.
- Even though there are no guidelines for turbidity, the measurements should be less than 10 NTU, or meet the baseline level established during development, upon completion of purging. Check with project manager if you use the baseline turbidity level.
- Prior to sampling document recovery time by measuring the water level in each well to prove that at least 80% recovery has occurred.
- A trip blank must be collected.
- o In the comments column of the chain of custody, write "Prepare laboratory report in WIP format."

## San Diego Department of Health Services Groundwater Sampling Requirements

- SDDHS does not encourage purging wells until dry.
- Purge one borehole volume of water if recovery is fast, collecting pH/temperature/conductivity measurements while purging, then remove an additional one-half borehole volume of water. If the first and second measurements vary by less than 10%, purging is considered adequate. If not, keep purging water in one-half borehole volume increments until the measurements vary by less than 10%,

or three borehole volumes have been removed. Obtain three consecutive pH/temperature/conductivity measurements that are within 10% of each other.

- o If recovery is slow (water does not recover to 80% of original level within two hours) purge only one borehole volume of water.
- Prior to sampling document recovery time by measuring the water level in each well to prove that at least 80% recovery has occurred.

#### Ventura County Environmental Health Division Groundwater Sampling Requirements

- A trip blank and a duplicate sample must be analyzed for each site.
- Custody seals must be place over the cap of each sample.

Under certain conditions the calculated purge volumes will need to be calculated in borehole volumes instead of well casings volumes. Use the following to calculate borehole volume in gallons.

Well I.D.Bore Volume2"0.90 gal/ft. in water4"/or nested wells1.70 gal/ft. in water

The completed groundwater sampling log must contain:

- pH/temp./conductivity and turbidity measurements indicating stabilization

- time and volume of water removed at each pH/temp./conductivity measurements

- total volume of water purged

- name of personnel performing sampling

- date and project number

- problems or unusual conditions arising during purging or sampling, such as the well going dry during

purging, water in the well vault, missing well caps or locks, odors, appearance of purge water, etc. - 80% recovery measurement and time of measurement after purging and before sampling

All chains of custody for the client's groundwater sites must contain the consultant work release number, station identification number and client contact among the other items to be filled out. Check the groundwater sampling field log and chain of custody for completeness, accuracy and neatness. If you have any questions, call!!!

Make sure that the date and time of relinquished and accepted at the lab are the same on the chain of custody. Also, make sure the lab fills in the sample condition information and signs for the samples on the chain of custody

## Santa Barbara County Environmental Health Services Groundwater Monitoring Guidelines

#### Groundwater Monitoring

- A. Groundwater levels are to be monitored/measured in all wells in a short time span.
- B. Measure the groundwater levels (correct for "free product" thickness).
- C. Use a clear bailer to check for the presence of "floating product," sheen, and odors.
- D. Replace well cover until ready to purge well.

#### II. Purging

A. Amount: generally 3 to 5 (no more than 10) well volumes; via bailer, pumps, or vacuum truck.

- B. Parameters (pH, temperature, conductivity) shall stabilize while purging.
  - Measure the parameters of a small volume (i.e., a 500 ml) of the water as it is removed from the well. Measure the parameters initially and at regular volume intervals (e.g., after every well casing volume). More frequent testing may be needed if the well is known to go dry.
  - 2. Wells must be allowed to recharge prior to sampling (see section G of the Santa Barbara County LUFT Manual).
- C. Slow recharging wells are wells that are purged dry before removing 3 well volumes of water, and take more than two (2) hours to recharge.
  - 1. Note this on the field records and estimate the number of well volumes removed.
  - 2. Allow the well to recharge a minimum of two (2) feet and then sample.
  - 3. Sample wells no later than 24 hours after purging.
  - 4. Note the water level and percentage of recharge in the report.

#### III. Sample Collection

- A. Use either a decontaminated Teflon, stainless steel, or disposable bailer.
- B. Sample containers are to be supplied and certified by a laboratory:
  - 1. VOAs of 40 ml volume (at least 3 per well check with lab and the PM for specific requirements); fill VOAs first to reduce volatization.
  - 2. 4 oz sample containers for Pb (metallic lead) analysis (if needed).
- C. Fill containers by pouring along the inside of the vial to reduce volatilization.
- Form a positive meniscus with the water, to avoid trapping air, before placing the cap on the VOA. Samples with headspace are not acceptable for analysis.
  - 1. Check for bubbles by inverting and tapping gently to dislodge bubbles.
  - 2. If bubbles are found, uncap and repeat steps C and D.
- E. Label all samples and store immediately in an ice chest at 4 degrees Celsius filled with ice.
- F. Be careful to properly decontaminate equipment between each and every well.

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